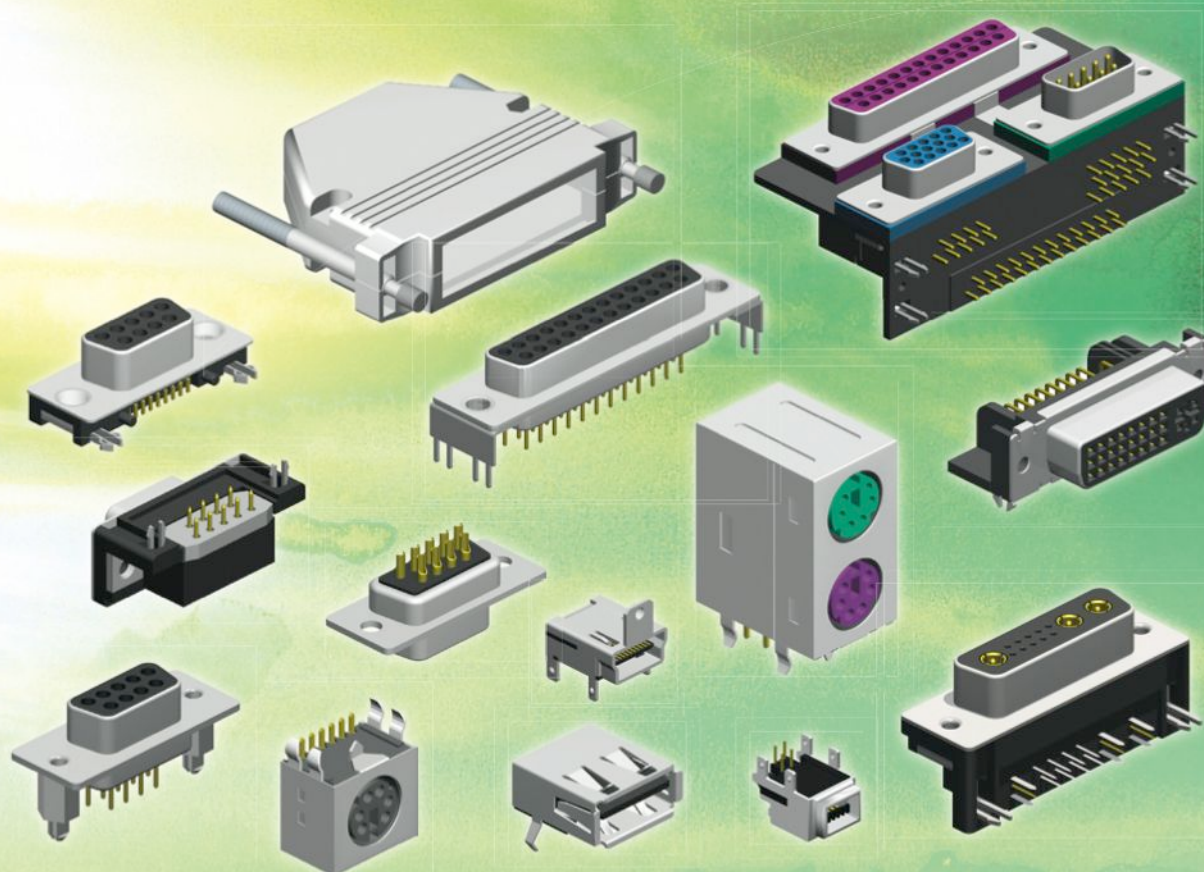




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SHF-xxx-B111-95/T0	34	SHM-xxx-S111-95/T	33	USS-B04-RB01-95	78
SHF-xxx-B111-95/TJ	34	SHM-xxx-S111-95/T0	33	USS-B04-SA01-95	74
SHF-xxx-F900-55/FH	47	SHM-xxx-S111-95/TJ	33	USS-B04-SB01-95	78
SHF-xxx-F900-55/FHJ	47	SKF-xxx-S201-95/T	16	USS-B04-SBS0-95	78
SHF-xxx-F900-55/FN	47	SKF-xxx-S201-95/T0	16	USS-B04-TA01-95	74
SHF-xxx-F900-55/FNJ	47	SKF-xxx-S202-95/T	17	USS-B04-TB01-95	78
SHF-xxx-F900-55/H	37	SKF-xxx-S202-95/T0	17	USS-B04-UB01-95	78
SHF-xxx-F900-55/HJ	37	SKM-xxx-S201-95/T	16	USS-B04-VA01-95	74
SHF-xxx-F900-55/N	37	SKM-xxx-S201-95/T0	16	USS-B08-TA02-95	75
SHF-xxx-F900-55/NJ	37	SKM-xxx-S202-95/T	17	USS-B12-RA03-95	75
SHF-xxx-S101-95/T	36	SKM-xxx-S202-95/T0	17	USS-BU09-RA31-95	76
SHF-xxx-S101-95/T0	36	SLO-xxx-T106-NN	70	USS-BU18-RA32-95	76
SHF-xxx-S111-95/BR	32	SSF-015-HU98-95/N	13	USS-W04-RA01-95	74
SHF-xxx-S111-95/BRJ	32	SSF-015-HU98-95/R	13	USS-W04-RA02-95	75
SHF-xxx-S111-95/BW	32	SSF-xxx-U908-95/N	11	USS-W04-RB01-95	78
SHF-xxx-S111-95/BWJ	32	SSF-xxx-U908-95/R	11	USS-W04-SAS0-95	74
SHF-xxx-S111-95/T	32	SSM-xxx-U908-95/N	12	USS-W04-SB01-95	78
SHF-xxx-S111-95/T0	32	SSM-xxx-U908-95/R	12	USS-W04-SBS0-95	78
SHF-xxx-S111-95/TJ	32	ULS-B04-RAS0-95	74	USS-W04-TA01-95	74
SHM-xxx-B111-55/BR	35	ULS-B04-RBS0-95	78	USS-W04-TB01-95	78
SHM-xxx-B111-55/BRJ	35	ULS-B04-SAS0-95	74	USS-W04-UB01-95	78
SHM-xxx-B111-55/T	35	ULS-W04-RAS0-95	74	USS-W04-VA01-95	74
SHM-xxx-B111-55/T0	35	ULS-W04-RBS0-95	78	USS-W08-TA02-95	75
SHM-xxx-B111-55/TJ	35	ULS-W04-SAS0-95	74	USS-W12-RA03-95	75

General information concerning the E-tec interconnect products

Specifications

The data contained in this catalog is of general nature and refers to standard products. For example, general tolerances $\pm 0.25\text{mm}$, a „Current rating“ at an ambient temperature of 25°C reflects the value per individual contact. Should you require any further data or test reports, you can obtain this information from your nearest E-tec sales office.

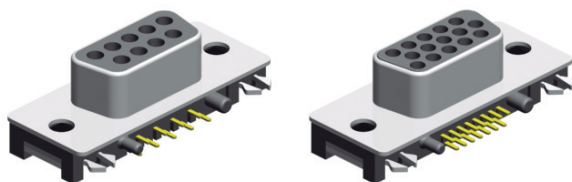
The E-tec connectors conform with signal integrity requirements at high data and frequency rates. However we cannot offer a general information about the max. frequency or data transmission rate. For such a statement, it would require more information about the chosen configuration and pin-out, the length of the cable and/or any other specific requirements regarding the application itself and its related signal integrity. E-tec SMT connectors, male or female, are offered with a coplanarity of max. $0,10\text{mm}$. They are adapted to all modern SMT soldering processes and they can be handled easily with all currently existing placing techniques. Customers may choose between various packaging options, such as tray, tube and reel.

GENERAL POLICY

All information contained in this catalog, including illustrations, specifications and dimensions are accurate to the best of our knowledge, and reflect the status as at the date of publication. Due to technical progress, it is subject to change without notice. Application information is informational in nature and shall not be construed to warrant suitability of products for any particular purpose as performance may vary depending on the conditions to which a product is subjected. Unless otherwise confirmed at the time of order, all E-tec products are non cancellable and non returnable items (NCNR). E-tec products are warranted for 30 days and the warranty is limited strictly to replacement of products. This warranty does not cover any claims for natural wear and tear, nor for any compensations, such as loss of production, loss of use, loss of orders, loss of profit, nor any other direct or indirect damages.

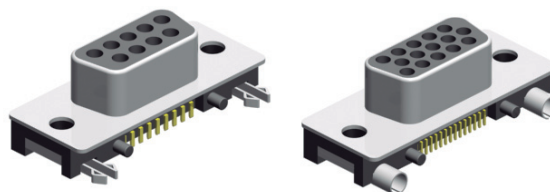
ULTRA SLIM PROFILE

Standard & HD right angle "solder tail"



Page 8, 9 & 10

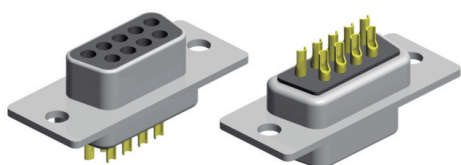
Standard & HD right angle "SMT"



Page 11, 12 & 13

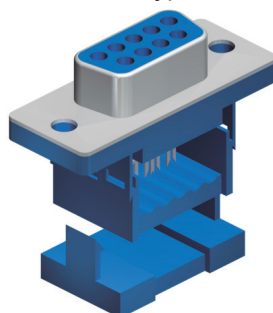
STANDARD VERSION

Hand Solder (solder cup) Type



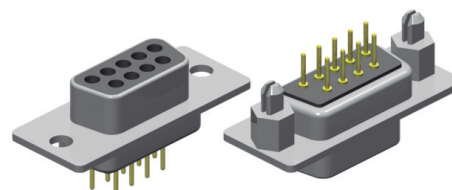
Page 15

IDC Type



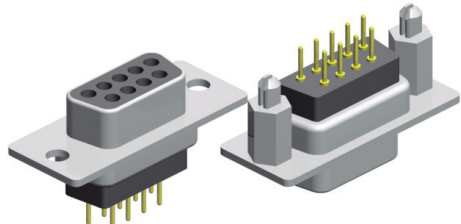
Page 16 & 17

Vertical Solder tail Type



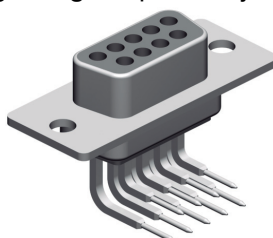
Page 18 & 19

Raised Vertical Solder tail Type



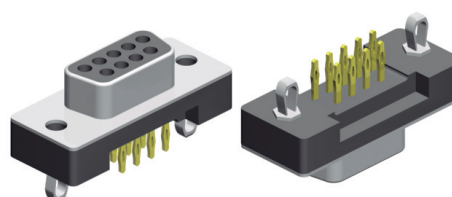
Page 20 & 21

Right Angle "open body" Type



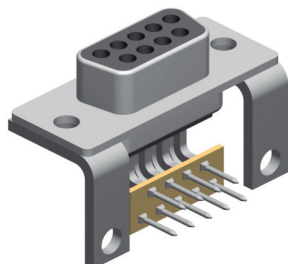
Page 22

Press Fit Type



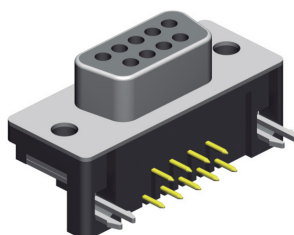
Page 30

Right Angle "open body" Type
6.30mm & 7.30mm centre



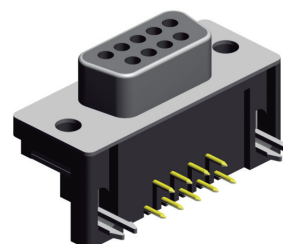
Page 23, 24 & 25

Right Angle "closed body" Type
US Style Footprint 8.08mm



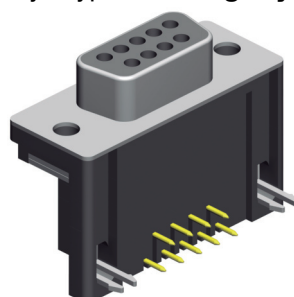
Page 26

Right Angle "closed body" Type
Euro Style Footprint 9.40mm



Page 27

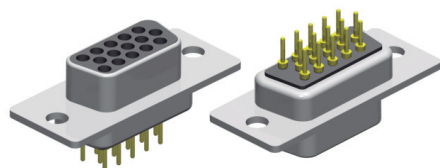
Right Angle "closed body" Type **Long Style** Footprint 15.00mm



Page 28

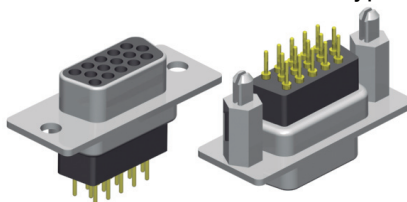
HIGH DENSITY

Vertical Soldertail Type



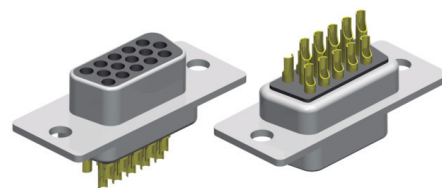
Page 32 & 33

Raised Vertical Soldertail Type



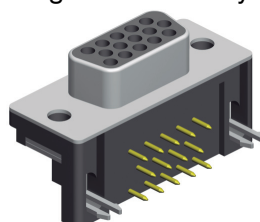
Page 34 & 35

Hand Solder (solder cup) Type



Page 36

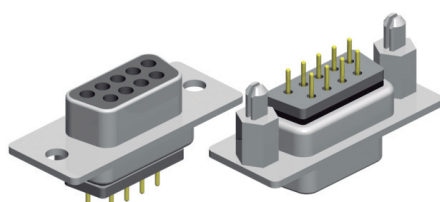
Right Angle "closed body" Type



Page 37

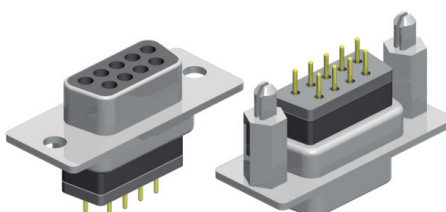
D-SUB WITH FERRITE FILTER

Vertical Soldertail Type



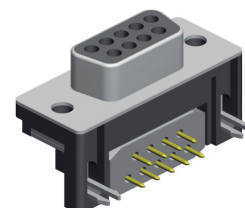
Page 40 & 41

Raised Vertical Soldertail Type



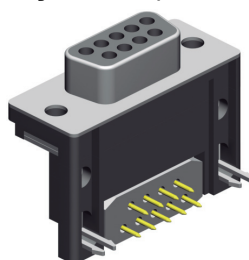
Page 42 & 43

Right Angle "closed body" Type
US Style Footprint 8.08mm



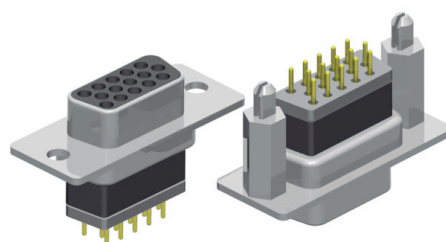
Page 44

Right Angle "closed body" Type
Long Style Footprint 15.00mm



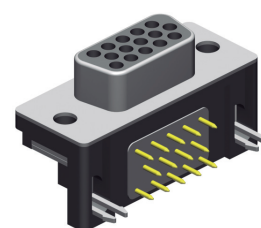
Page 45

"High Density"
Raised Vertical Soldertail Type



Page 46

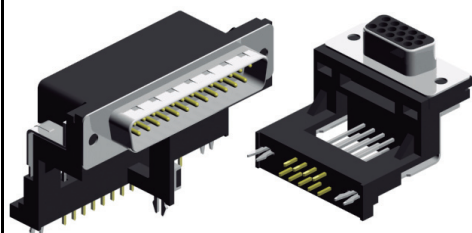
"High Density"
Right Angle "closed body" Type



Page 47

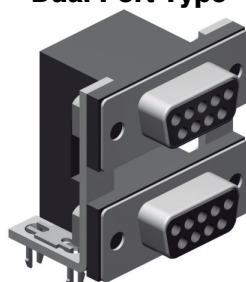
Raised & MULTI PORT

Raised Type



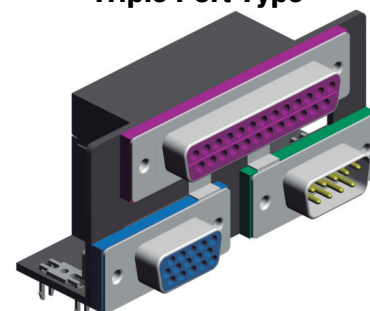
Page 49, 50 & 67

Dual Port Type



Page 51 to 67

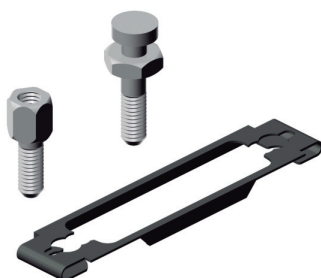
Triple Port Type



Page 68

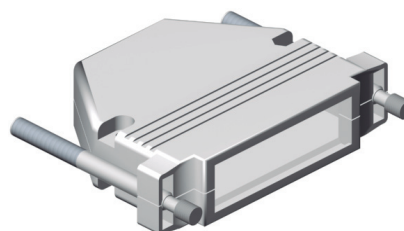
D-SUB ACCESSORIES

Jack Screws and Slide Locking System



Page 70

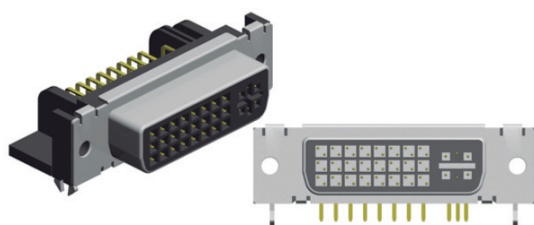
Hoods



Page 71

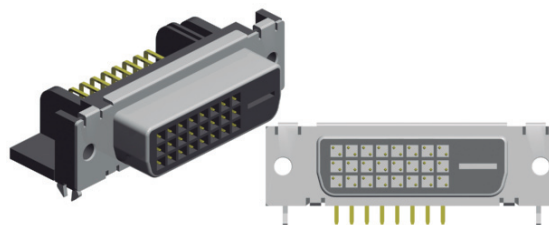
DVI

Analog & Digital 24+4-contact - Right Angle Type



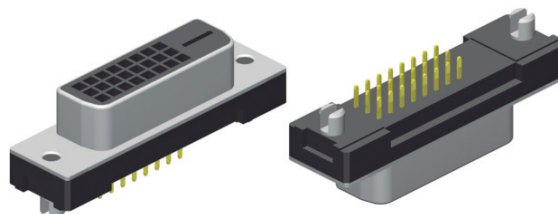
Page 84

Digital 24-contact - Right Angle Type



Page 84

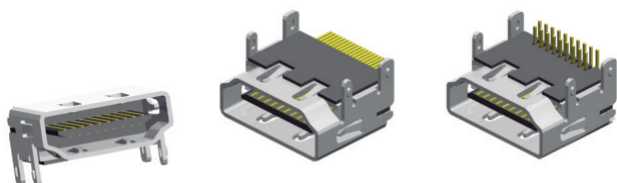
Digital 24-contact - Vertical Type



Page 85

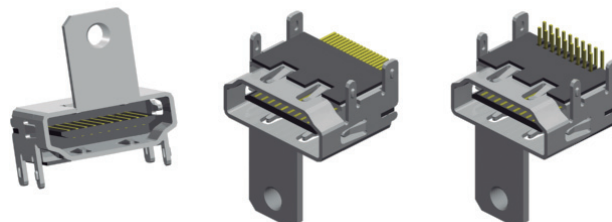
HDMI

SMT & Solder Tail without Mounting Flange



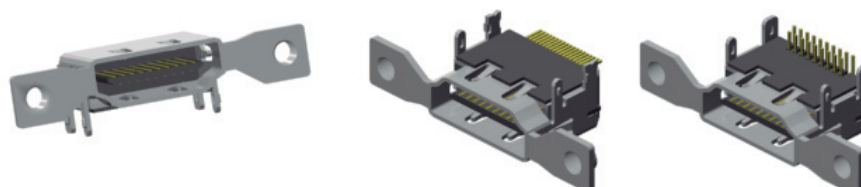
Page 94 & 95

SMT & Solder Tail with "top" Mounting Flange



Page 94 & 95

SMT & Solder Tail with "wing" Mounting Flange



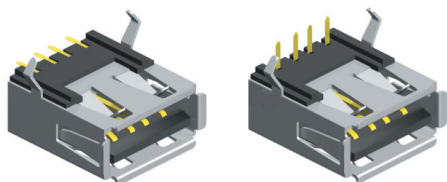
Page 96

PRODUCT OVERVIEW

USB - IEEE 1394 - MINI DIN

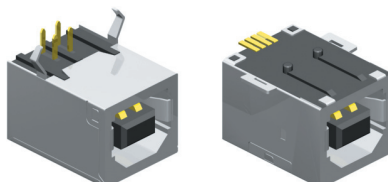
USB & IEEE 1394 CONNECTORS

USB Connector Type "A"



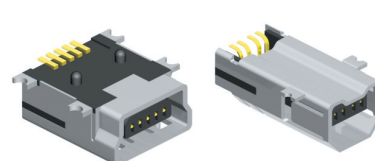
Page 74

USB Connector Type "B"



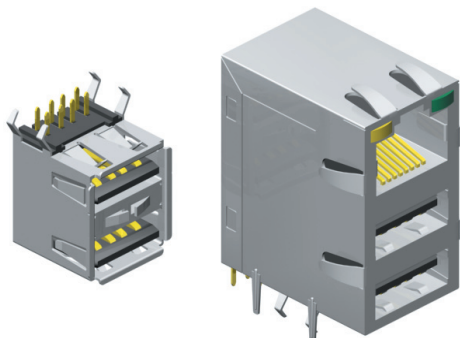
Page 78

Mini USB Connector Type "A" & "B"



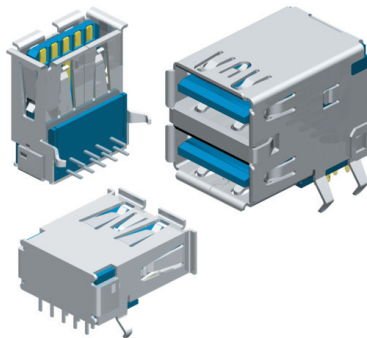
Page 79

Multi Port USB Connector Type "A"



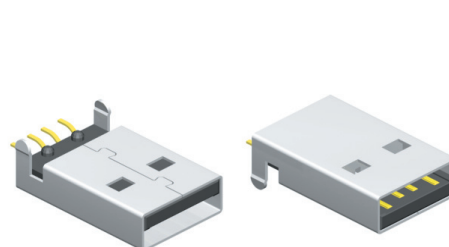
Page 75

USB Connector 3.0 Type "A"



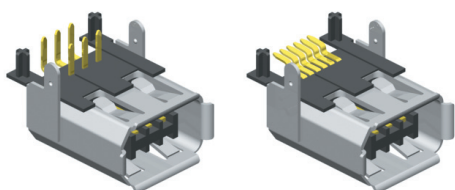
Page 76

USB Plug



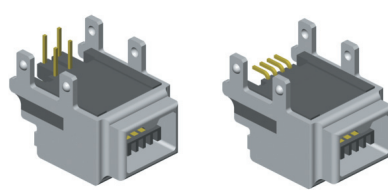
Page 77

IEEE 1394 Connector
6-Contact Type



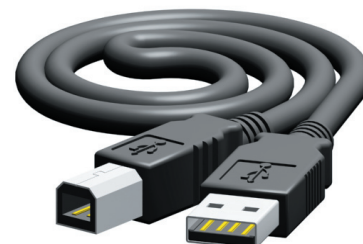
Page 80

IEEE 1394 Connector
4-Contact Type



Page 81

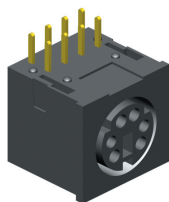
USB & IEEE 1394 Connector
Cable Assembly



Page 82

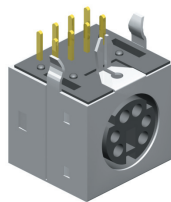
MINI DIN CONNECTORS

Non Shielded Type



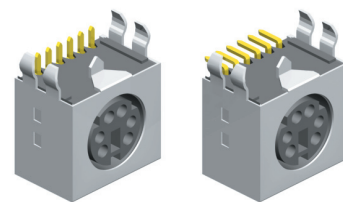
Page 87

Shielded Type



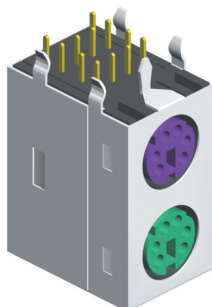
Page 88

Low Profile Type Solder-tail & SMT



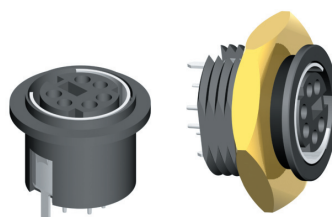
Page 89

Dual Port Type



Page 90

Straight & Wall Mounting Type



Page 91

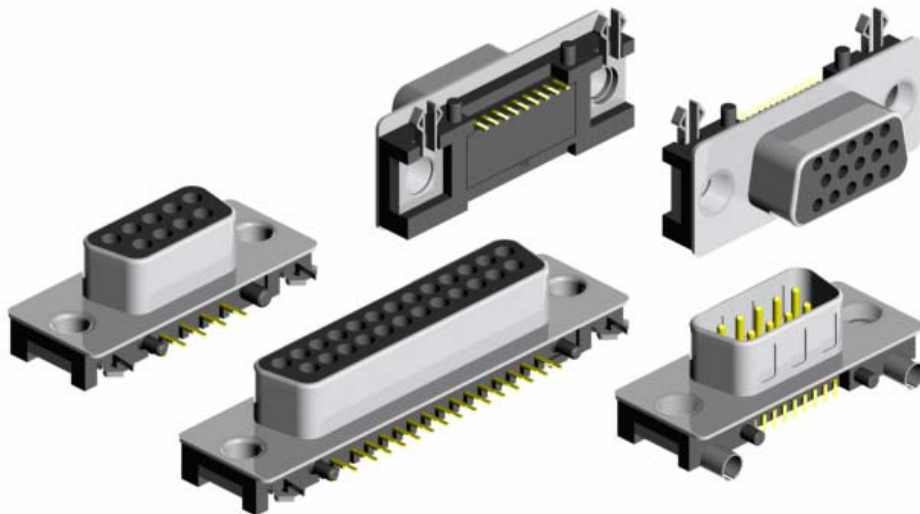
Plugs



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Ultra Slim Profile

D-Sub



Ultra Slim Profile D-Sub Connectors are designed
in order to save space on the PC-Boards.

Standard and High Density versions for through hole “Wave Solder” and
“Pin-In-Paste” Technology, as well as regular SMT types,
right angle male and female are available.

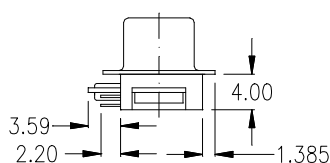
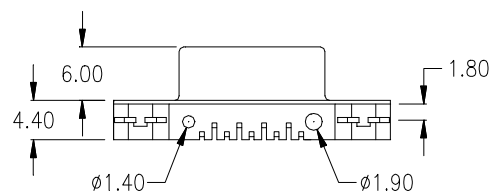
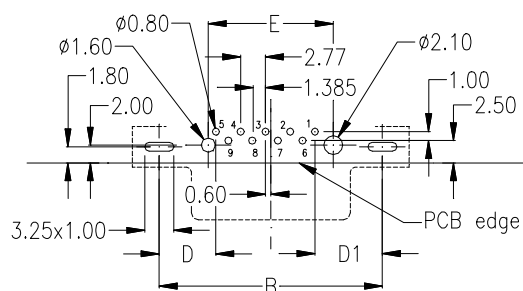
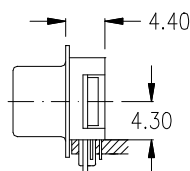
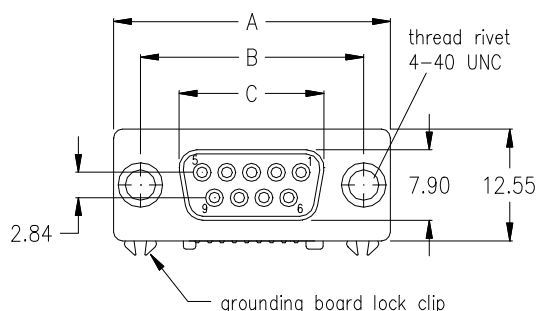
SD Series - D-Sub 90° US91 Ultra Slim Profile

"Wave Solder" & "Pin-In-Paste" Technology



female

PCB hole layout



for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643	<u>6.36</u> .250	<u>7.56</u> .298	<u>14.00</u> .551

Ordering Code

for "Wave Solder" Technology

SDF - 009 - US91 - 95 / N

for "Pin-In-Paste" Technology

SDF - 009 - US91 - 95 / SN

Option:

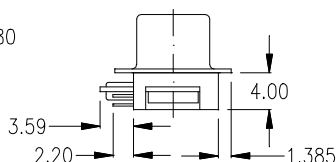
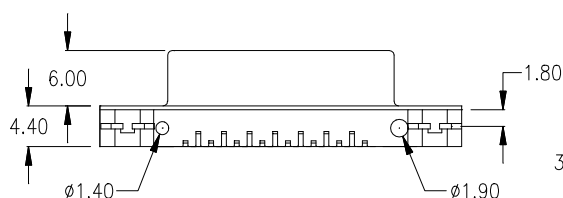
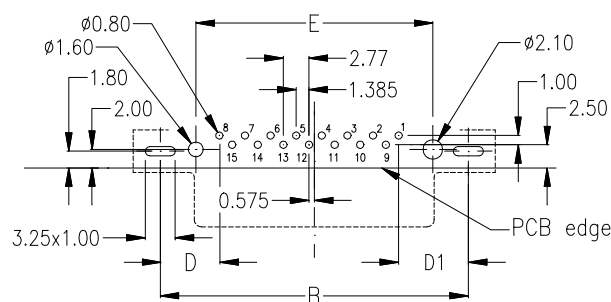
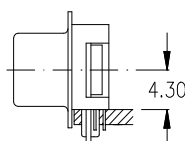
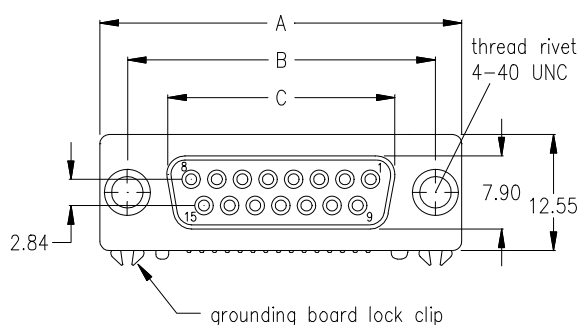
Jack Screw
has to
be ordered
separately.

See page 70

Plating: -95= tin(leadfree)/gold

female

PCB hole layout



for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971	<u>6.39</u> .252	<u>7.54</u> .297	<u>25.64</u> 1.009

Ordering Code

for "Wave Solder" Technology

SDF - 015 - US91 - 95 / N

for "Pin-In-Paste" Technology

SDF - 015 - US91 - 95 / SN

Option:

Jack Screw
has to
be ordered
separately.

See page 70

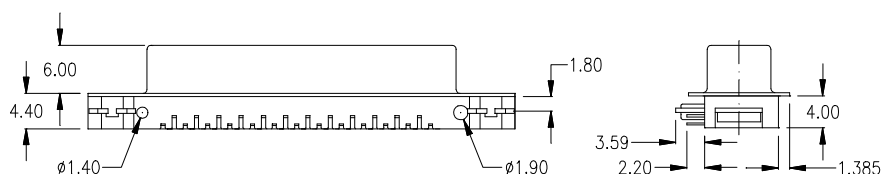
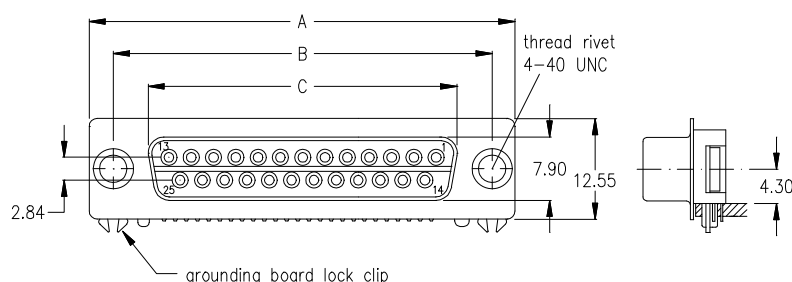
Plating: -95= tin(leadfree)/gold

SD Series - D-Sub 90° US91 Ultra Slim Profile

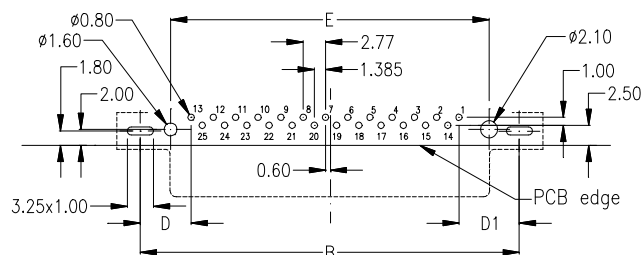
"Wave Solder" & "Pin-In-Paste" Technology



female



PCB hole layout



Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
025	53.04 2.088	47.04 1.852	38.38 1.511	6.30 .248	7.50 .295	39.54 1.557

Ordering Code

for "Wave Solder" Technology

SDF - 025 - US91 - 95 / N

for "Pin-In-Paste" Technology

SDF - 025 - US91 - 95 / SN

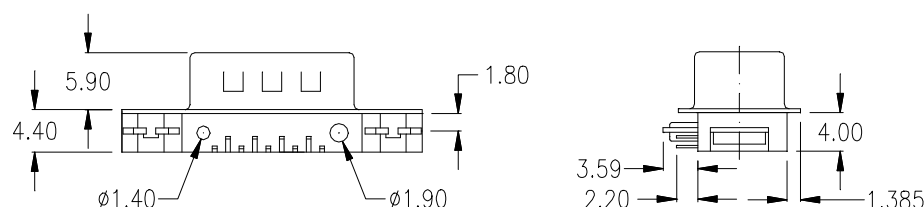
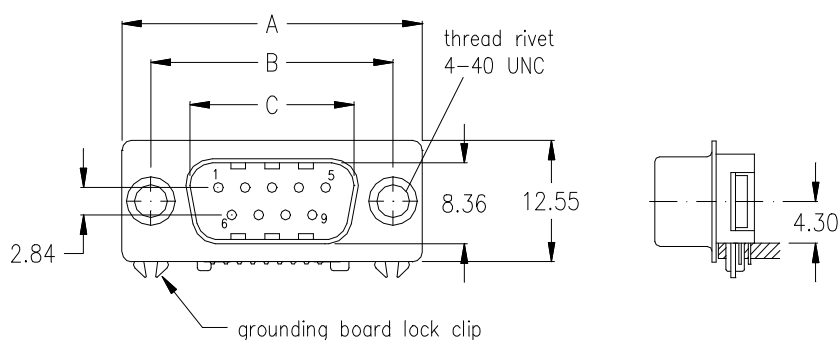
Option:

Jack Screw has to be ordered separately.

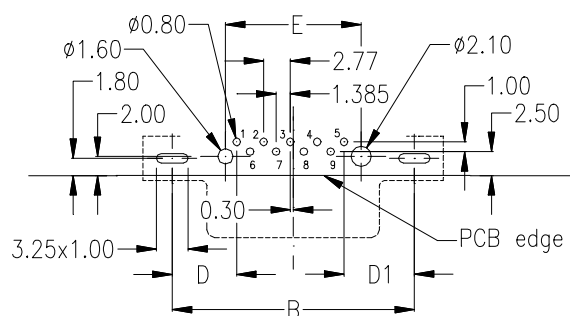
See page 70

Plating: -95= tin(leadfree)/gold

male



PCB hole layout



Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	30.81 1.213	24.99 .984	16.92 .666	6.66 .262	7.26 .286	14.00 .551

Ordering Code

for "Wave Solder" Technology

SDM - 009 - US91 - 95 / N

for "Pin-In-Paste" Technology

SDM - 009 - US91 - 95 / SN

Option:

Jack Screw has to be ordered separately.

See page 70

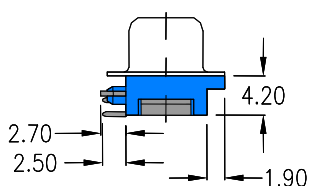
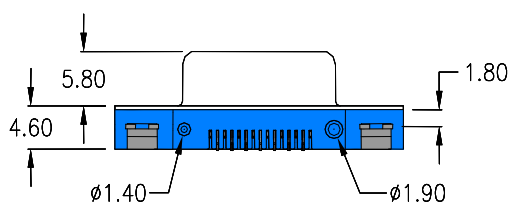
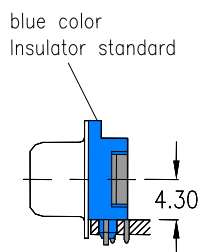
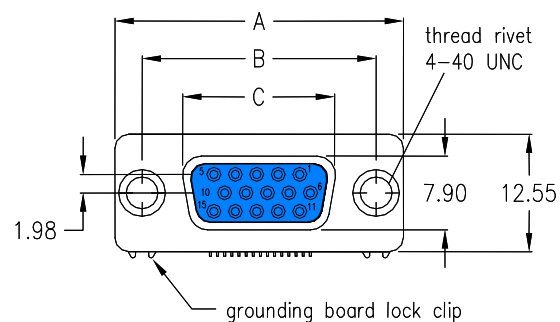
Plating: -95= tin(leadfree)/gold

SH Series - High Density D-Sub 90° US98 Ultra Slim Profile

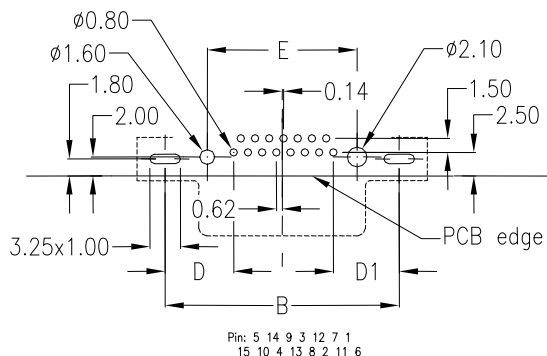
"Wave Solder" & "Pin-In-Paste" Technology



female



PCB hole layout



for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
015	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643	<u>7.32</u> .288	<u>7.04</u> .277	<u>16.00</u> .630

Ordering Code

for "Wave Solder" Technology

SHF - 015 - US98 - 95 / VN

for "Pin-In-Paste" Technology

SHF - 015 - US98 - 95 / VSN

Option:

Jack Screw
has to
be ordered
separately.

See page 70

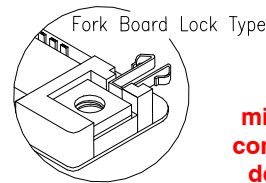
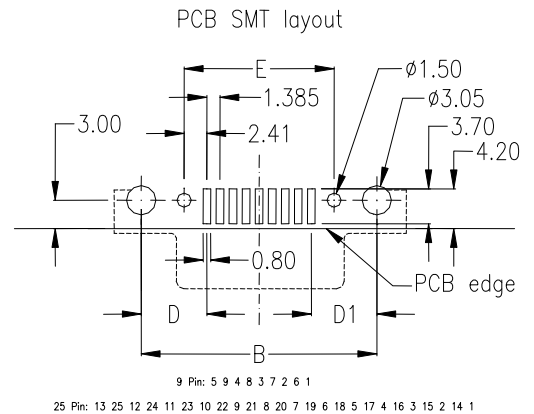
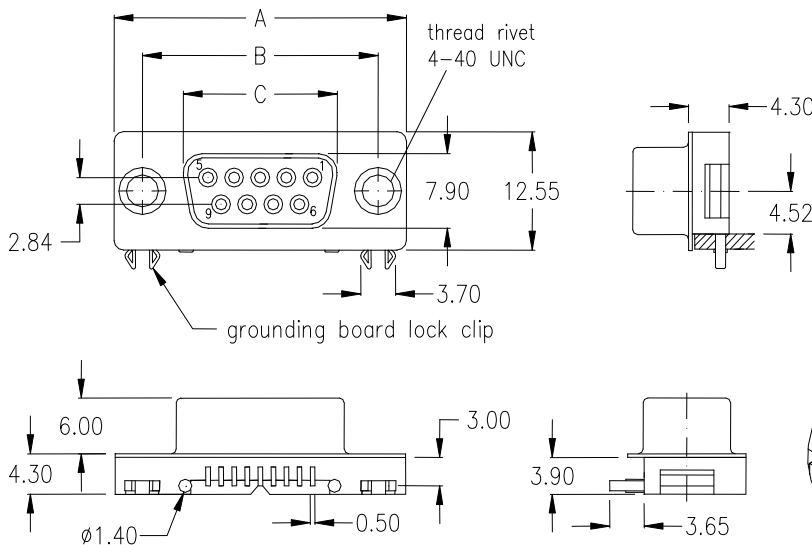
Please ask for black color insulator availability

Plating: -95= tin(leadfree)/gold

SS Series - SMT D-Sub 90° U908 Ultra Slim Profile



female — with fork board lock type —



Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	30.81 1.213	24.99 .984	16.33 .643	6.96 .274	6.96 .274	15.90 .626
025	53.04 2.088	47.04 1.852	38.38 1.511	6.90 .272	6.90 .272	38.06 1.498

Ordering Code

SSF - xxx - U908 - 95 / N

No. of contacts

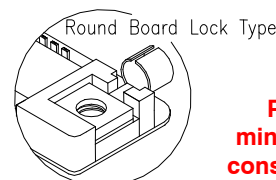
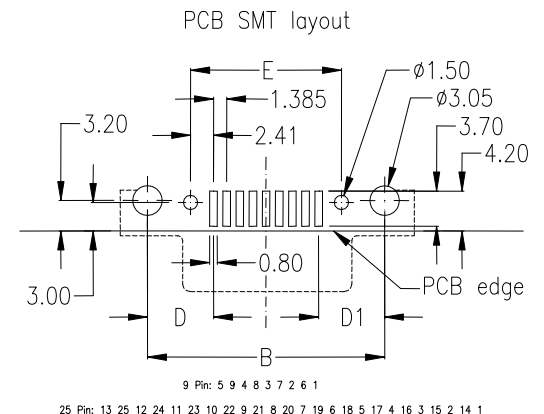
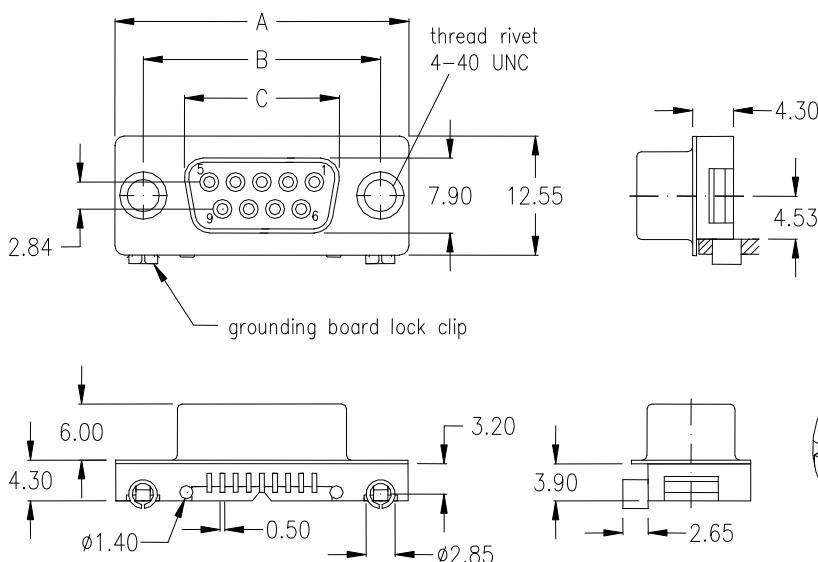
Plating: -95= tin(leadfree)/gold

Option:

Jack Screw has to be ordered separately.

See page 70

female — with round board lock type —



Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	30.81 1.213	24.99 .984	16.33 .643	6.96 .274	6.96 .274	15.90 .626
025	53.04 2.088	47.04 1.852	38.38 1.511	6.90 .272	6.90 .272	38.06 1.498

Ordering Code

SSF - xxx - U908 - 95 / R

No. of contacts

Plating: -95= tin(leadfree)/gold

Option:

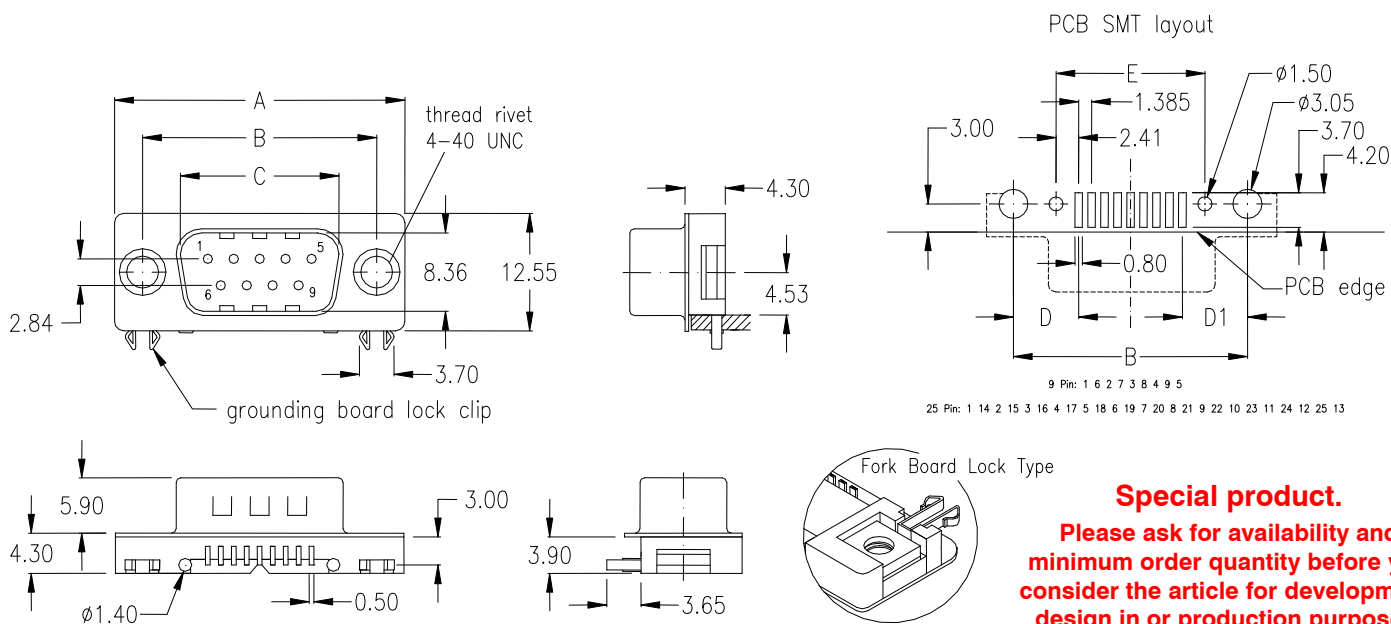
Jack Screw has to be ordered separately.

See page 70

SS Series - SMT D-Sub 90° U908 Ultra Slim Profile



male — with fork board lock type —



for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	30.81 1.213	24.99 .984	16.92 .666	6.96 .274	6.96 .274	15.90 .626
025	53.04 2.088	47.04 1.852	38.96 1.534	6.90 .272	6.90 .272	38.06 1.498

Ordering Code

SSM - xxx - U908 - 95 / N

No. of contacts

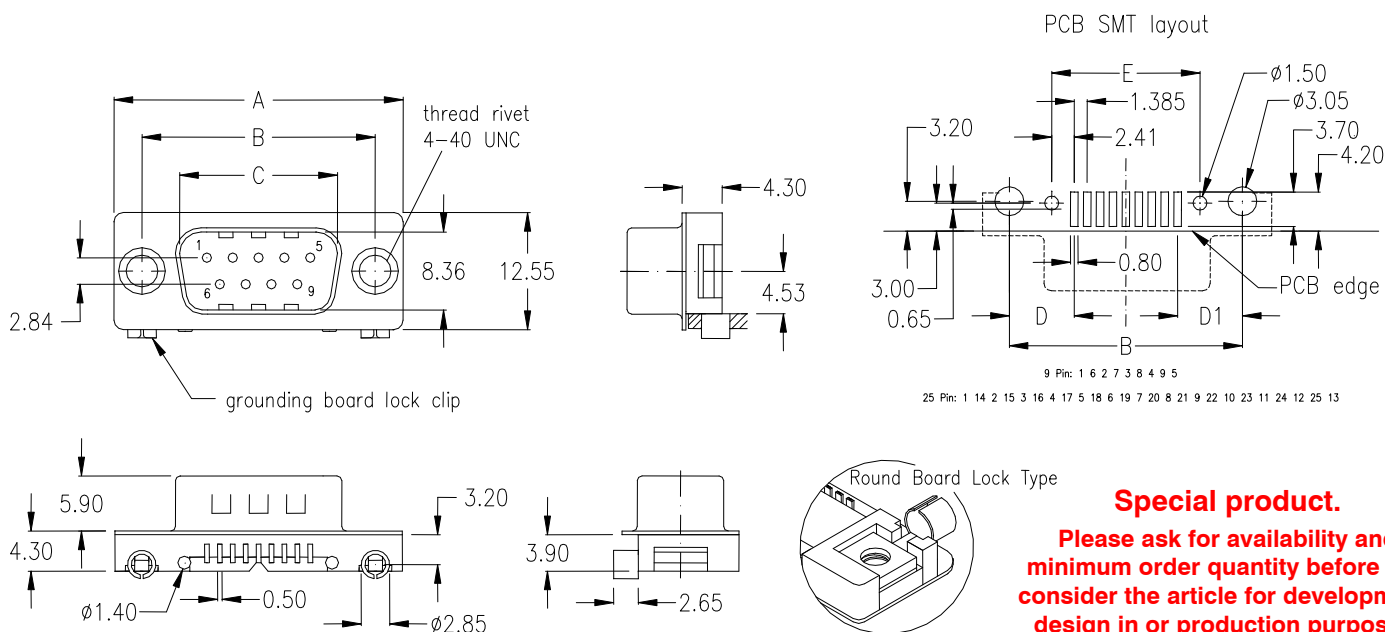
Plating: -95= tin(leadfree)/gold

Option:

Jack Screw has to be ordered separately.

See page 70

male — with round board lock type —



for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
009	30.81 1.213	24.99 .984	16.92 .666	6.96 .274	6.96 .274	15.90 .626
025	53.04 2.088	47.04 1.852	38.96 1.534	6.90 .272	6.90 .272	38.06 1.498

Ordering Code

SSM - xxx - U908 - 95 / R

No. of contacts

Plating: -95= tin(leadfree)/gold

Option:

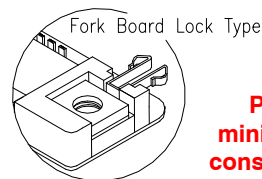
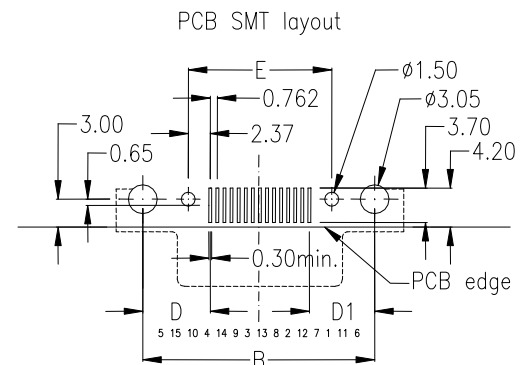
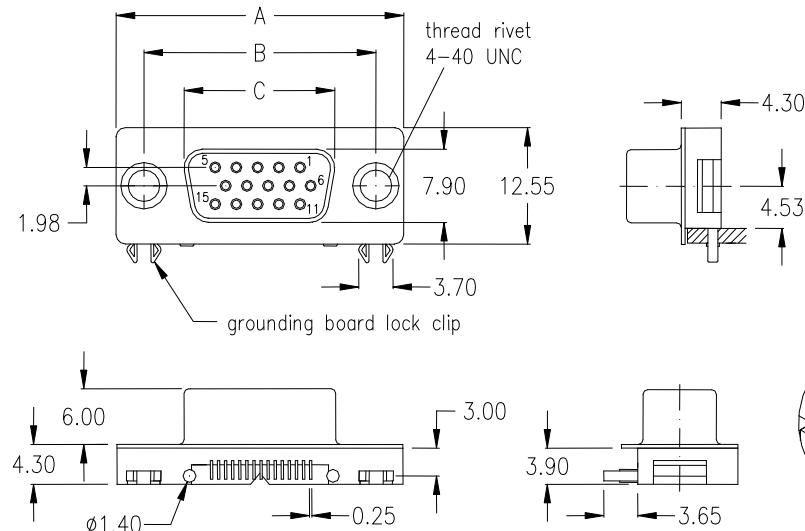
Jack Screw has to be ordered separately.

See page 70

SS Series - SMT HD D-Sub 90° HU98 Ultra Slim Profile



female — with fork board lock type —



Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
015	30.81 1.213	24.99 .984	16.33 .643	7.296 .287	7.026 .277	15.46 .609

Ordering Code

SSF - 015 - HU98 - 95 / N

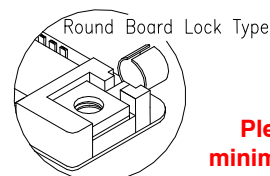
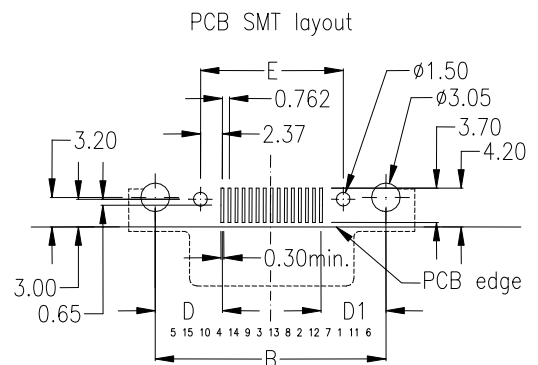
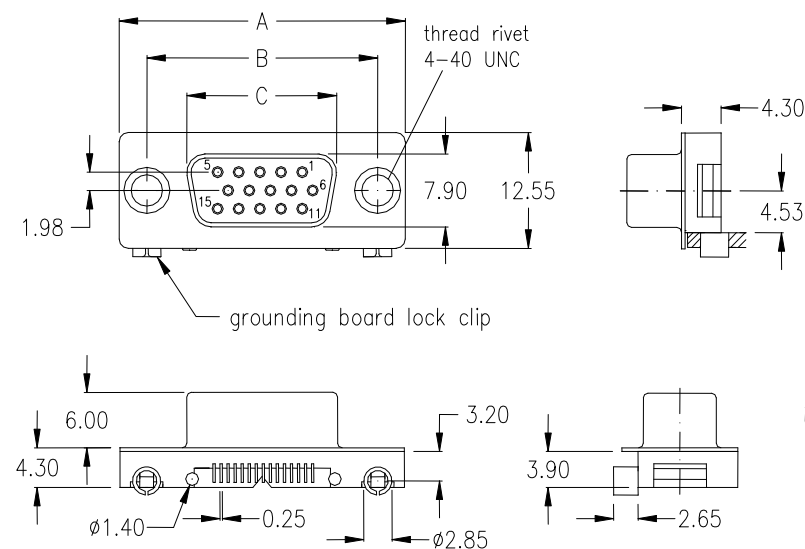
Option:

Jack Screw has to be ordered separately.

See page 70

Plating: -95= tin(leadfree)/gold

female — with round board lock type —



Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

for technical & electrical specification please go to page 72

No. of contacts	Dimension					
	A	B	C	D	D1	E
015	30.81 1.213	24.99 .984	16.33 .643	7.296 .287	7.026 .277	15.46 .609

Ordering Code

SSF - 015 - HU98 - 95 / R

Option:

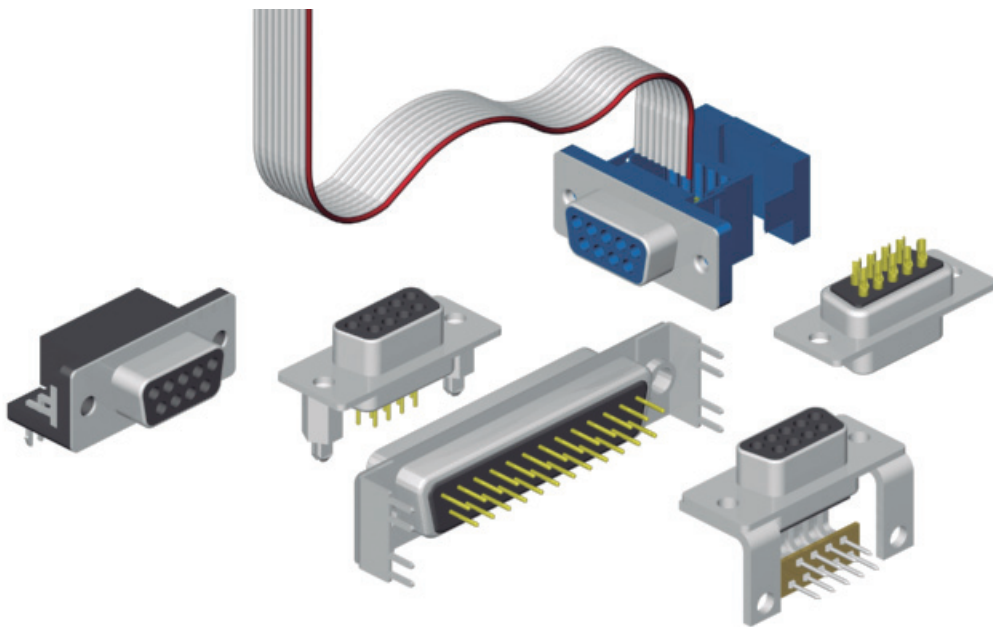
Jack Screw has to be ordered separately.

See page 70

Plating: -95= tin(leadfree)/gold

Standard Version

D-Sub



Our D-Sub Connectors conform to industrial specifications and are compatible with DIN 41 652 norms, IEC 48 B, HE 5 etc.....

They are compatible with all other D-Sub Connectors available on the market according to these specifications.

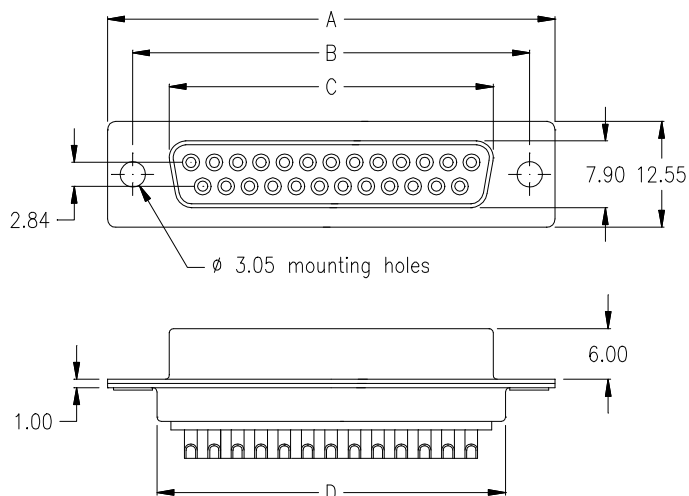
Together with a large variety of accessories, the D-Sub Connectors can be used in most applications, such as industrial electronics, data- and telecommunication and others more.

SD Series - D-Sub

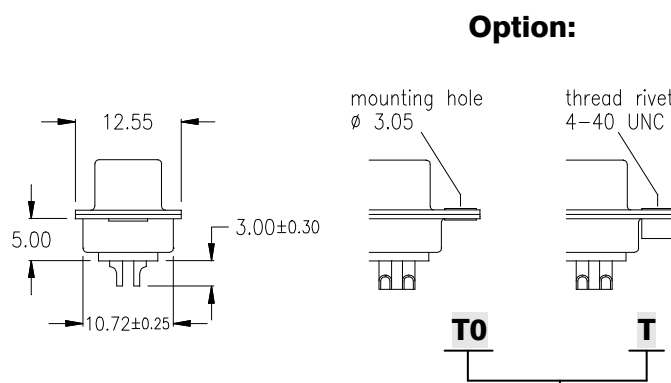
S101 solder cup type



female



No. of contacts	Dimension			
	A	B	C	D
009	30.81 1.213	24.99 .984	16.33 .643	19.28 .795
015	39.14 1.541	33.32 1.312	24.66 .971	27.51 1.083
025	53.04 2.088	47.04 1.852	38.38 1.511	41.30 1.652
037	69.32 2.729	63.50 2.500	54.84 2.159	57.40 2.272



Option:

Ordering Code

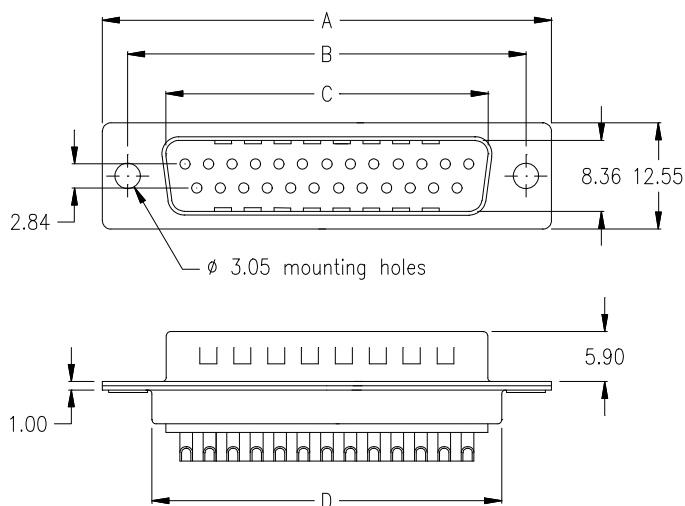
SDF - xxx - S101 - 95 / XX

No. of contacts Option

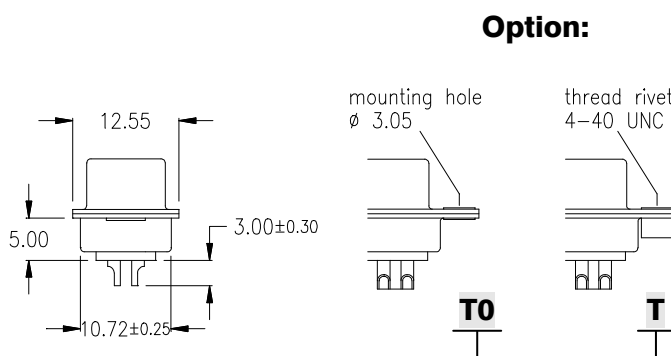
General Specification page 72

Plating: -95 = tin(leadfree)/gold

male



No. of contacts	Dimension			
	A	B	C	D
009	30.81 1.213	24.99 .984	16.92 .666	19.28 .795
015	39.14 1.541	33.32 1.312	25.25 .994	27.51 1.083
025	53.04 2.088	47.04 1.852	38.96 1.534	41.30 1.652
037	69.32 2.729	63.50 2.500	55.42 2.182	57.40 2.272



Option:

Ordering Code

SDM - xxx - S101 - 95 / XX

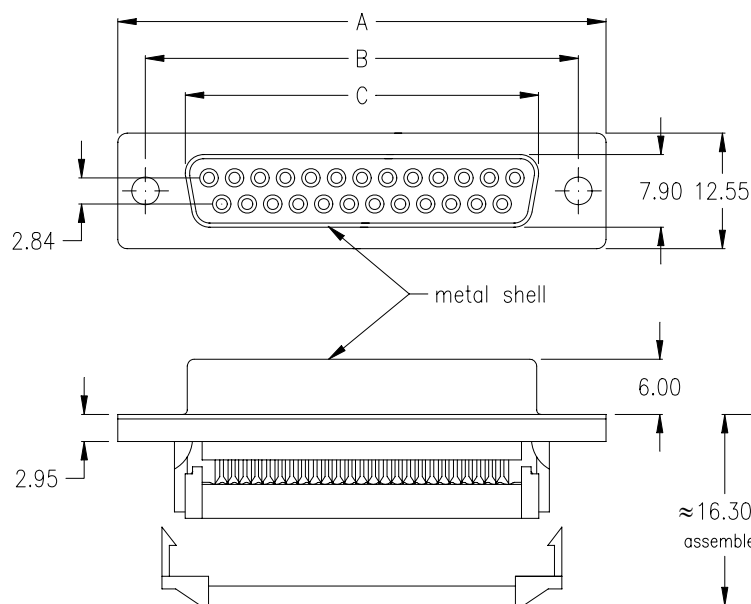
No. of contacts Option

General Specification page 72

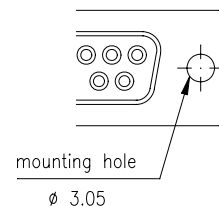
Plating: -95 = tin(leadfree)/gold

S201 metal shell type

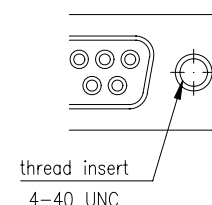
female



Option:



mounting hole
 ϕ 3.05



thread insert
 4-40 UNC

T0

T

Ordering Code

SKF - xxx - S201 - 95 / XX

No. of contacts

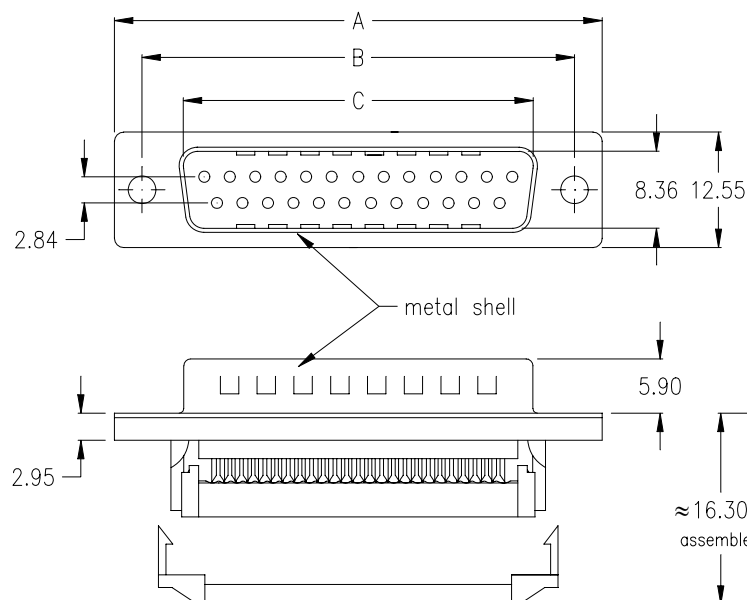
Option

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.33 .643
015	39.14 1.541	33.32 1.312	24.66 .971
025	53.04 2.088	47.04 1.852	38.38 1.511
037	69.32 2.729	63.50 2.500	54.84 2.159

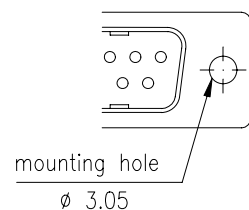
Plating: -95 = tin(leadfree)/gold

General Specification page 72

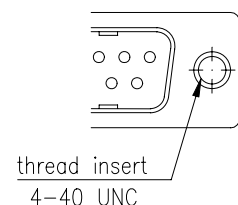
male



Option:



mounting hole
 ϕ 3.05



thread insert
 4-40 UNC

T0

T

Ordering Code

SKM - xxx - S201 - 95 / XX

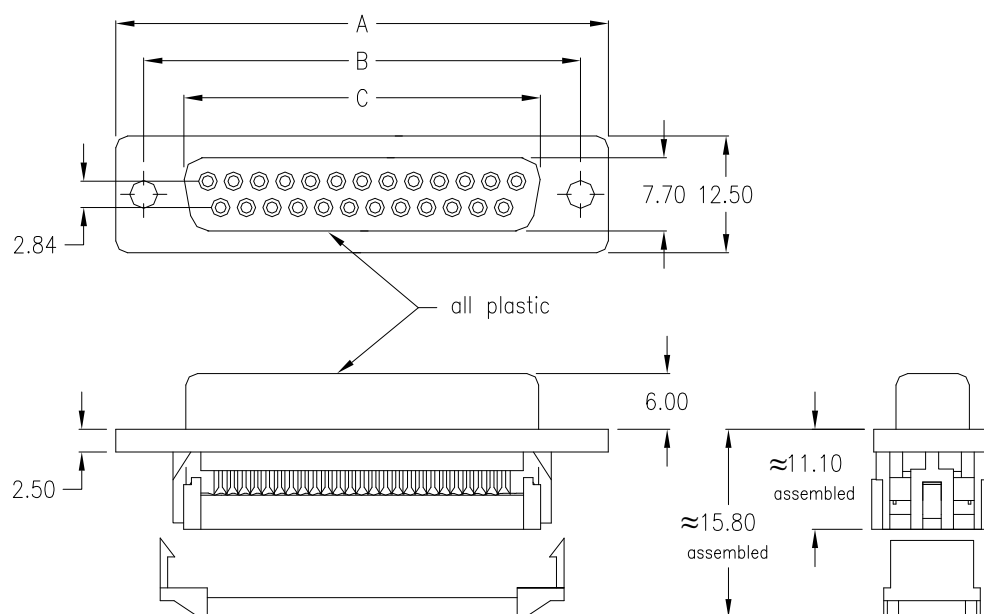
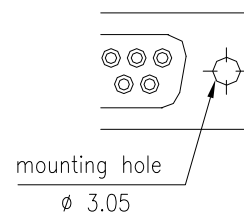
No. of contacts

Option

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Plating: -95 = tin(leadfree)/gold

General Specification page 72

female**Option:****T0**

No. of contacts	Dimension		
	A	B	C
009	31.16 1.227	24.99 .984	16.00 .630
015	39.42 1.552	33.32 1.312	24.27 .955
025	53.34 2.100	47.04 1.852	38.22 1.505
037	69.68 2.743	63.50 2.500	54.65 2.152

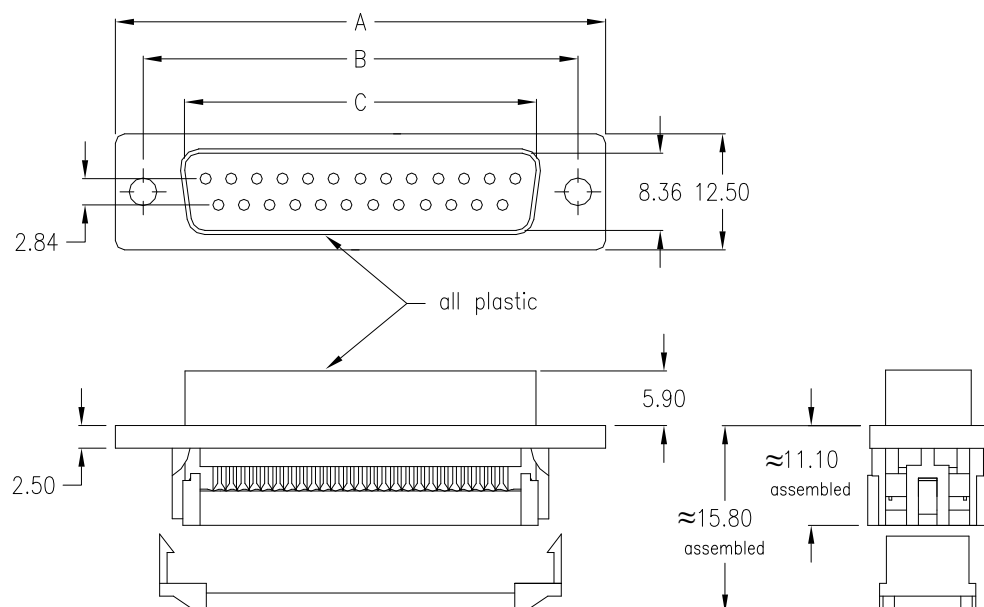
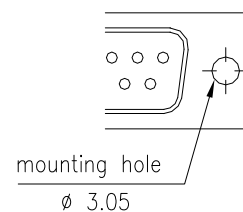
Plating: **-95** = tin(*leadfree*)/gold

General Specification page 72

Ordering Code**SKF - xxx - S202 - 95 / XX**

No. of contacts

Option

male**Option:****T0**

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

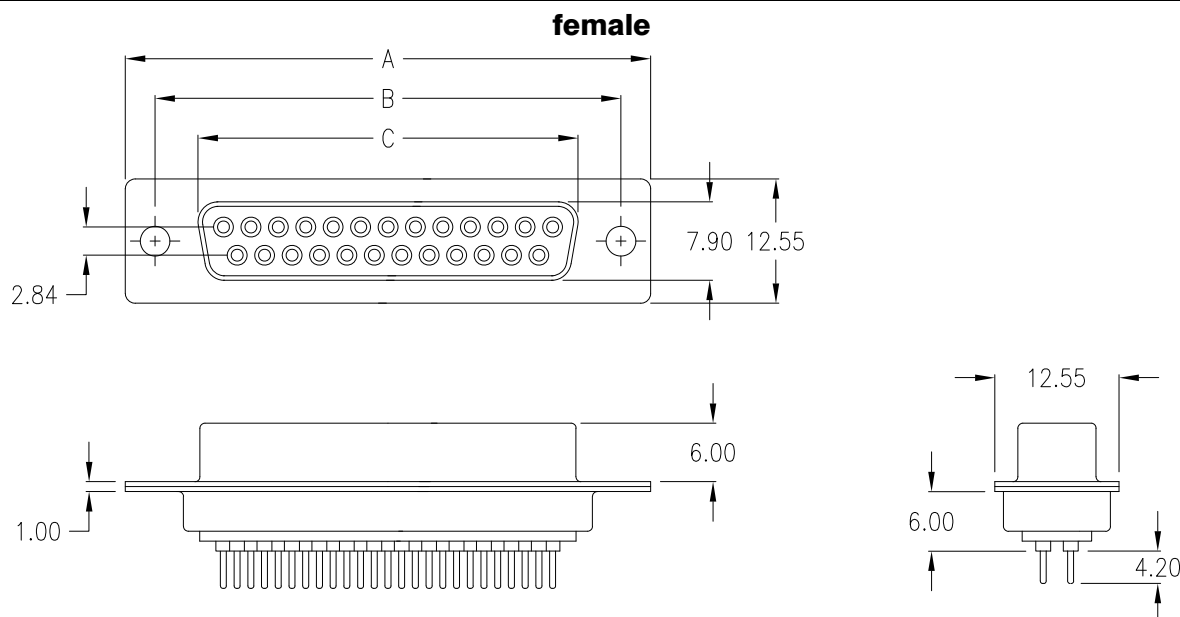
Plating: **-95** = tin(*leadfree*)/gold

General Specification page 72

Ordering Code**SKM - xxx - S202 - 95 / XX**

No. of contacts

Option



Ordering Code

SDF - xxx - S111 - 95 / XXX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

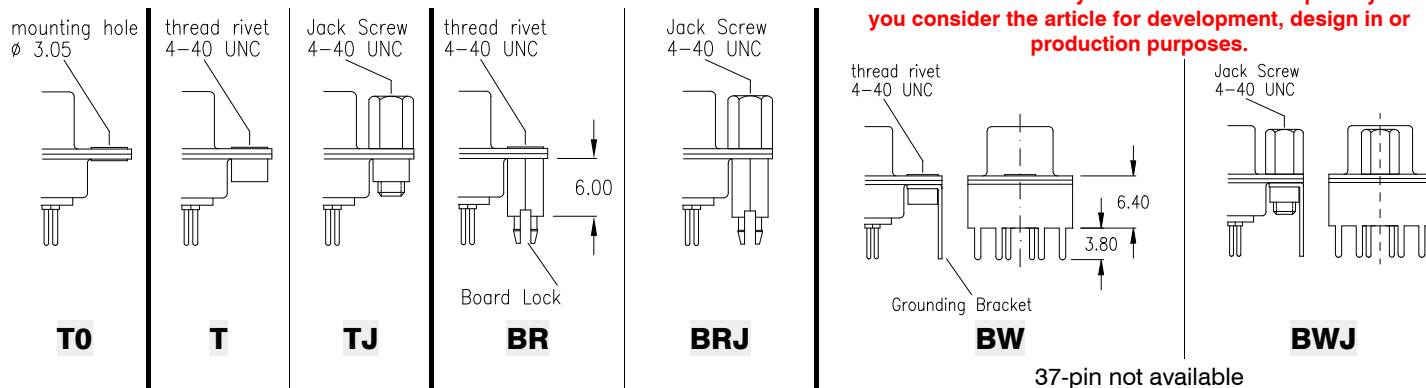
General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
025	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
037	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159

Options

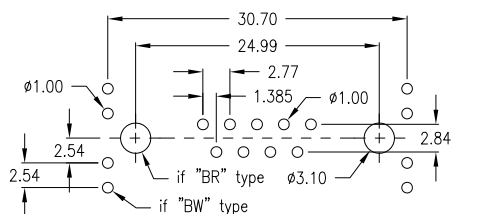
Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

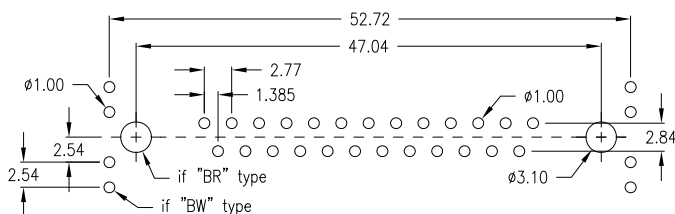


37-pin not available

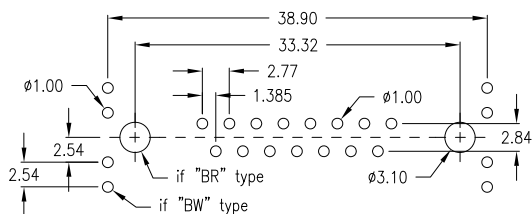
PCB Layout „female“



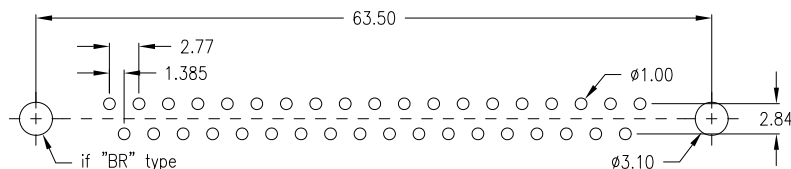
9 pin



25 pin

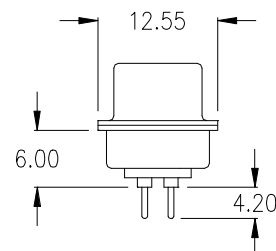
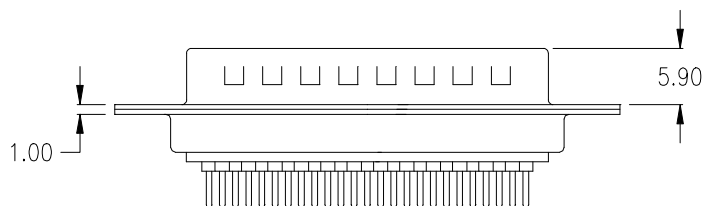
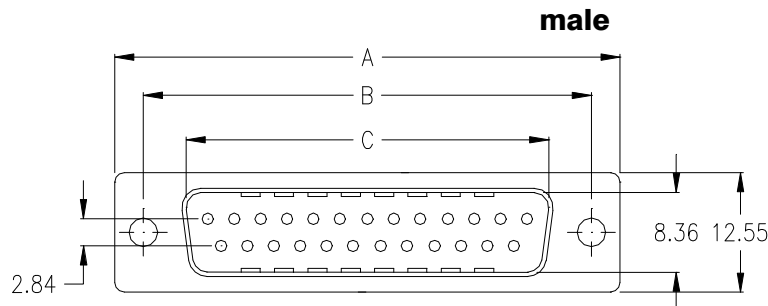


15 pin



37 pin

SD Series - D-Sub
S111 standard soldertail type



Ordering Code

SDM - xxx - S111 - 95 / XXX

No. of contacts

Option

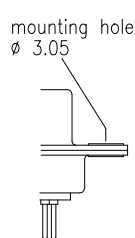
Plating: -95 = tin(leadfree)/gold

General Specification page 72

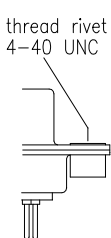
No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Options

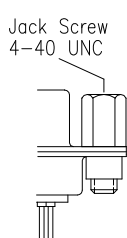
Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.



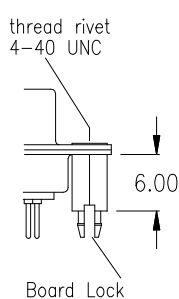
T0



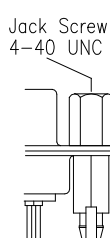
T



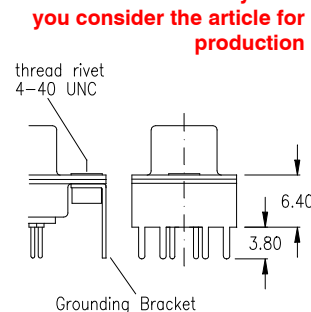
TJ



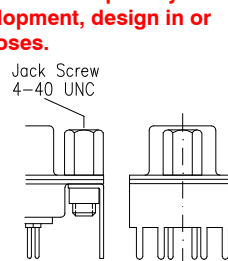
BR



BRJ

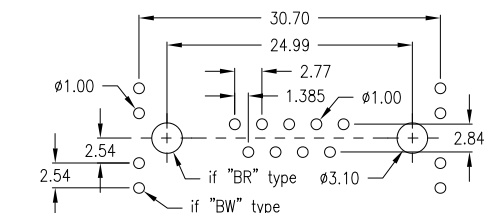


BW

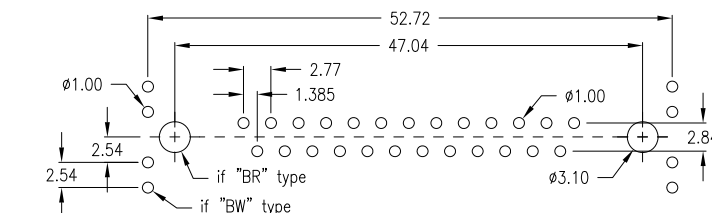


BWJ

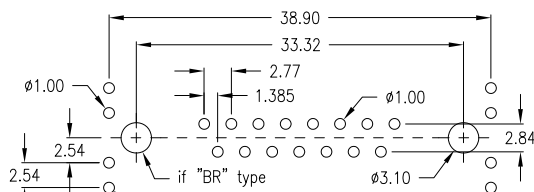
PCB Layout „male“



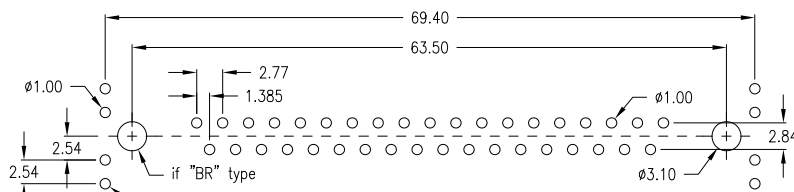
9 pin



25 pin



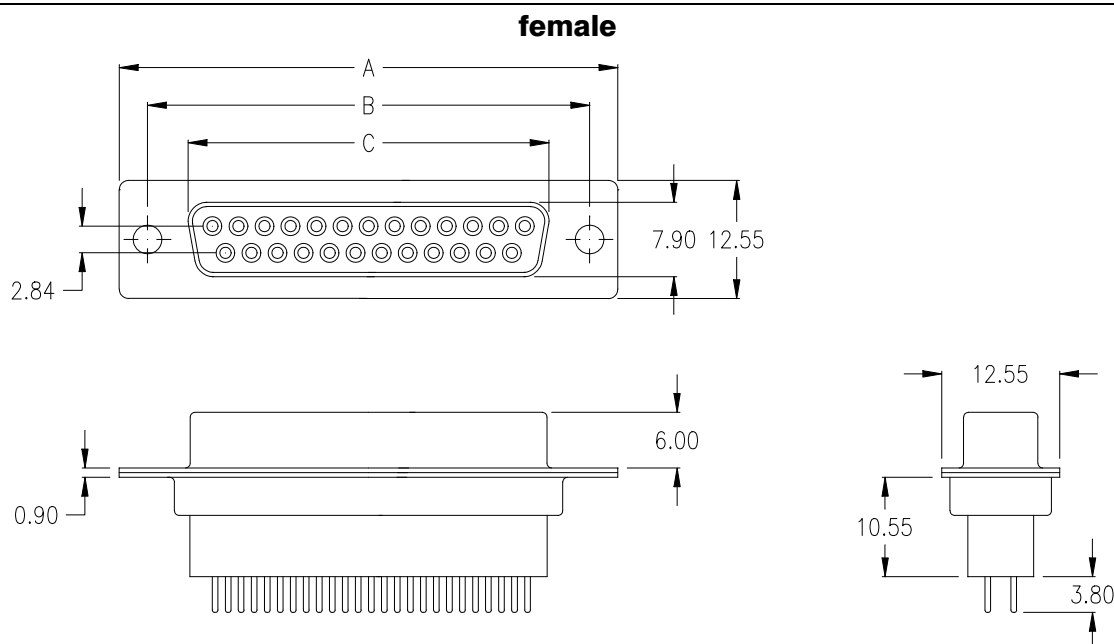
15 pin



37 pin

SD Series - D-Sub

B111 raised soldertail type



Ordering Code

SDF - xxx - B111 - 95 / XXX

No. of contacts

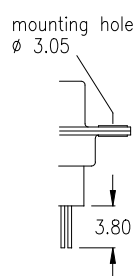
Option

Plating: **-95** = tin(*leadfree*)/gold

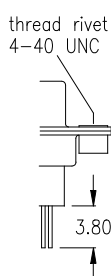
General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
025	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
037	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159

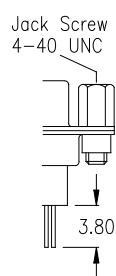
Options



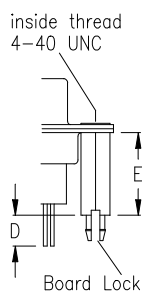
T0



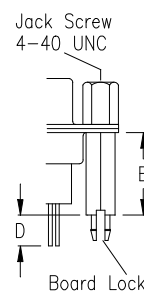
T



TJ



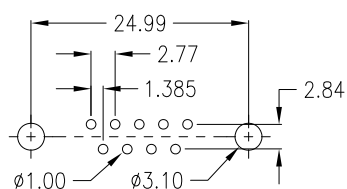
BR



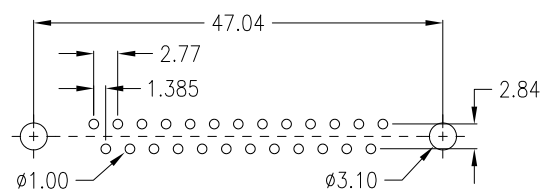
BRJ

D ±0.20	E	Option
3,20	12,70	1
3,50	11,00	2
3,20	14,50	4
4,20	13,50	5

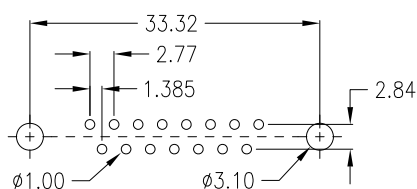
PCB Layout „female“



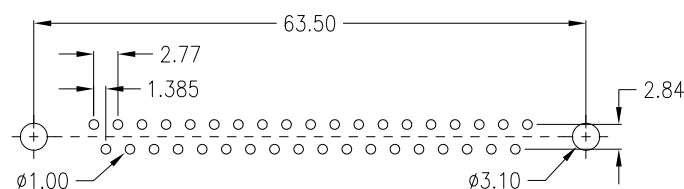
9 pin



25 pin



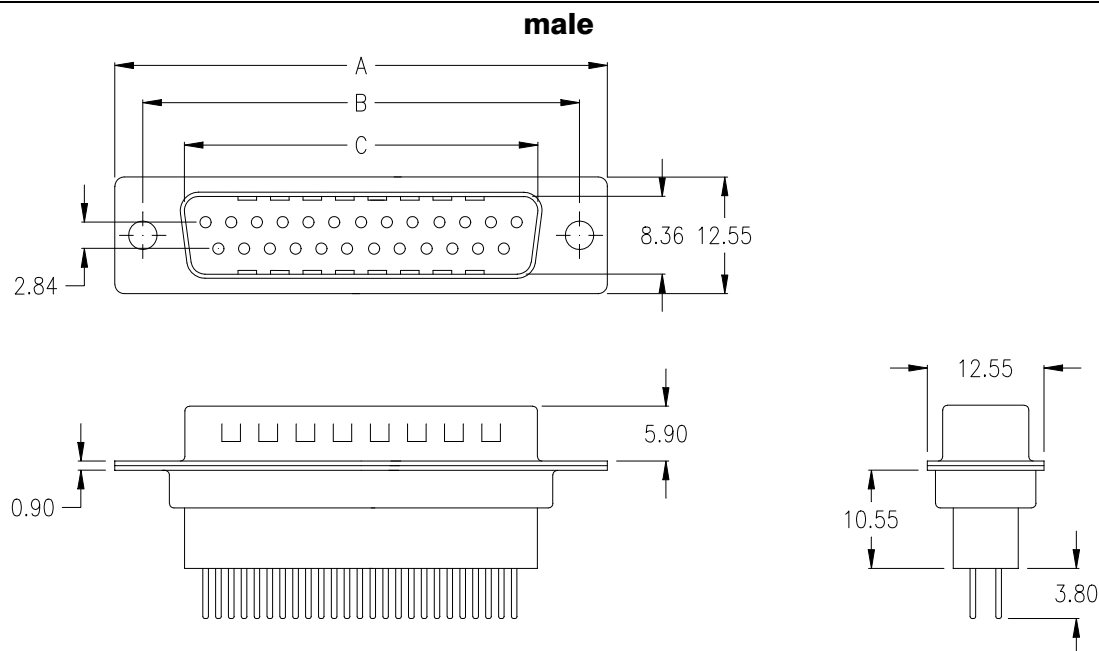
15 pin



37 pin

SD Series - D-Sub

B111 raised soldertail type



Ordering Code

SDM - xxx - B111 - 95 / XXX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Options

mounting hole
ø 3.05

thread rivet
4-40 UNC

Jack Screw
4-40 UNC

inside thread
4-40 UNC

Jack Screw
4-40 UNC

D ±0.20	E	Option
3,20	12,70	1
3,50	11,00	2
3,20	14,50	4
4,20	13,50	5

T0

T

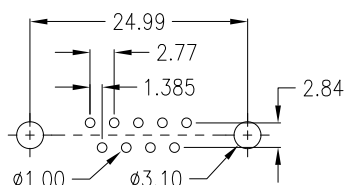
TJ

BR

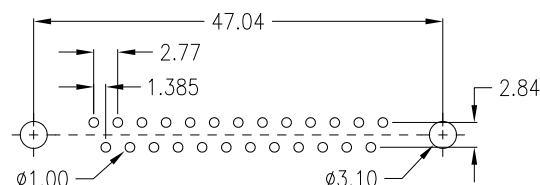
BR J

PCB Layout „male“

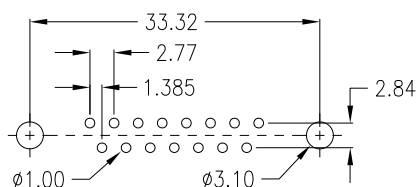
9 pin



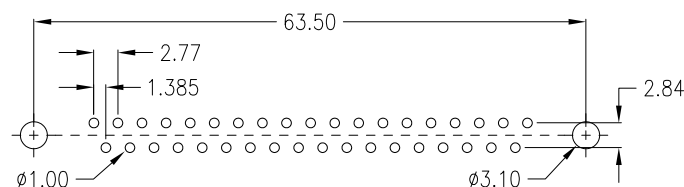
25 pin



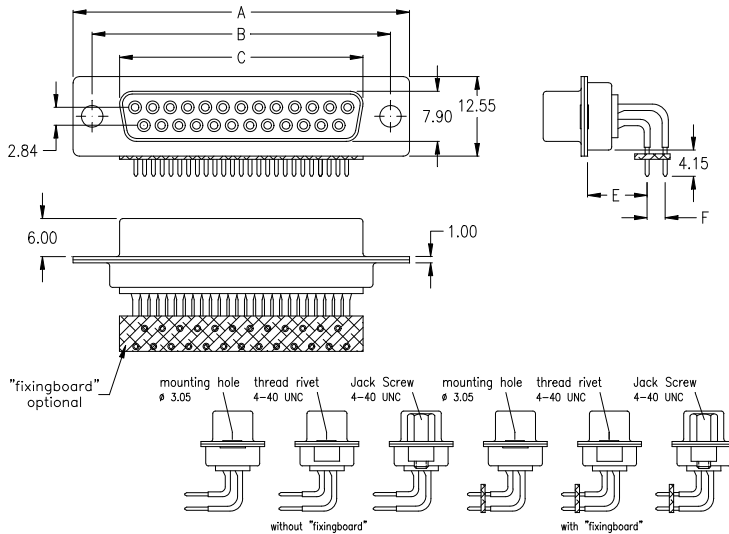
15 pin



37 pin



female



Option: **blank (Standard)** **T** **TJ** **K0** **K** **KJ**

No. of contacts	Dimension			
	A	B	C	E
009	30.81 1.213	24.99 .984	16.33 .643	7.20 .283
015	39.14 1.541	33.32 1.312	24.66 .971	7.20 .283
025	53.04 2.088	47.04 1.852	38.38 1.511	9.40 .370
037	69.32 2.729	63.50 2.500	54.84 2.159	9.40 .370

Ordering Code

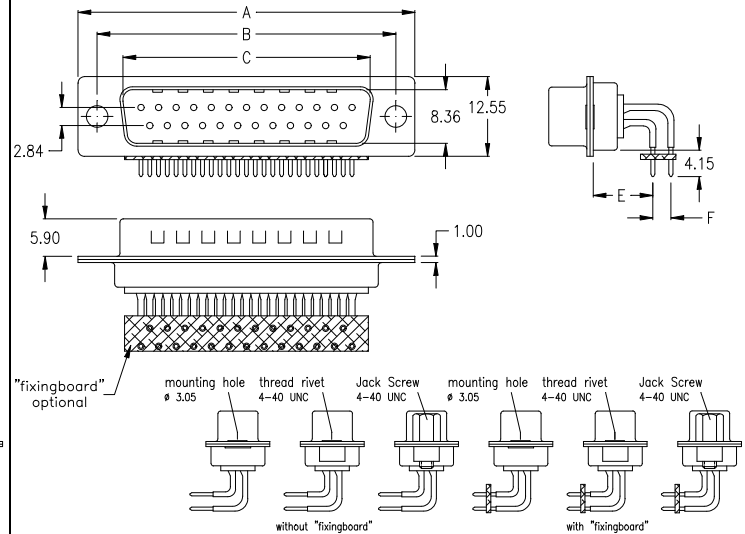
SDF - xxx - X xxx - 55 / Xx (XX)

No. of contacts

Dimension "E"	precision contact
7.20 mm	N901-55
9.40 mm	T901-55

Option	Dimension "F"
A1	2.54 mm
A2	2.84 mm

male



Option: **blank (Standard)** **T** **TJ** **K0** **K** **KJ**

No. of contacts	Dimension			
	A	B	C	E
009	30.81 1.213	24.99 .984	16.92 .666	7.20 .283
015	39.14 1.541	33.32 1.312	25.25 .994	7.20 .283
025	53.04 2.088	47.04 1.852	38.96 1.534	9.40 .370
037	69.32 2.729	63.50 2.500	55.42 2.182	9.40 .370

Ordering Code

SDM - xxx - X xxx - 55 / Xx (XX)

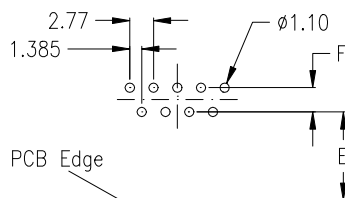
No. of contacts

Dimension "E"	precision contact
7.20 mm	N901-55
9.40 mm	T901-55

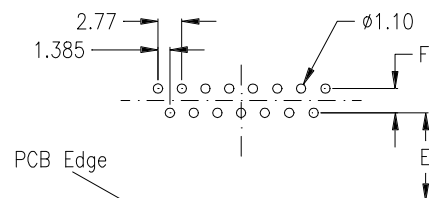
Option	Dimension "F"
A1	2.54 mm
A2	2.84 mm

-55 = Plating gold all over

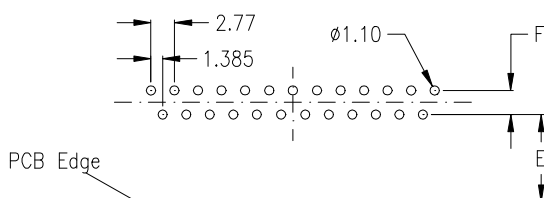
PCB Layout



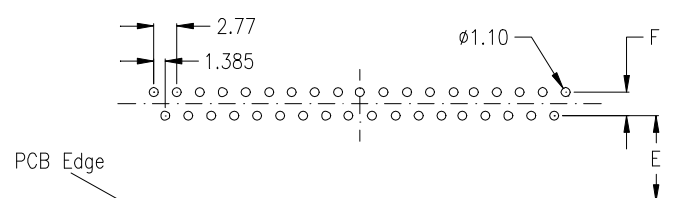
9 pin



15 pin

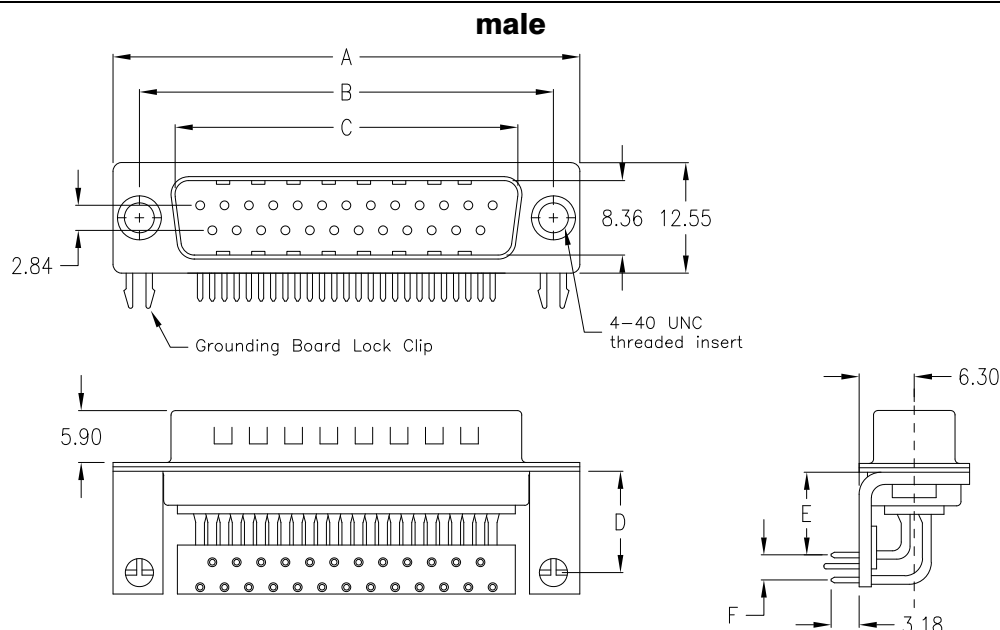


25 pin



37 pin

SD Series - D-Sub 90° „open body“ 6,30mm/.248” centre type



Ordering Code

Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

SDM - xxx - N 900 - 95/ XxXX

No. of contacts

Option

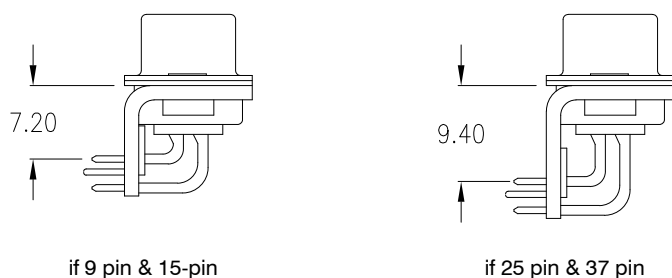
Stamped contact

Plating: -95 = tin(leadfree)/gold

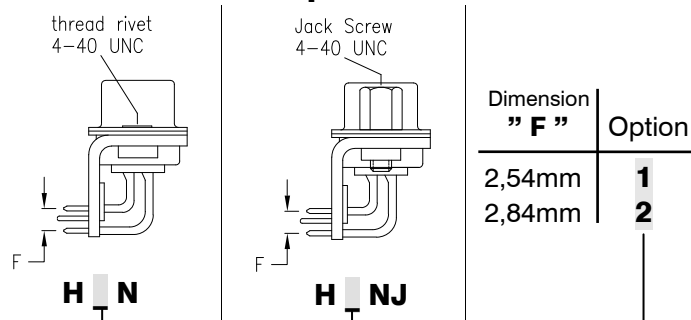
No. of contacts	Dimension				
	A	B	C	D if "F"=2,54	D if "F"=2,84
009	30.81 1.213	24.99 .984	16.92 .666	8.47 .333	8.47 .333
015	39.14 1.541	33.32 1.312	25.25 .994	8.47 .333	8.47 .333
025	53.04 2.088	47.04 1.852	38.96 1.534	10.67 .420	10.67 .420
037	69.32 2.729	63.50 2.500	55.42 2.182	10.67 .420	10.67 .420

General Specification page 72

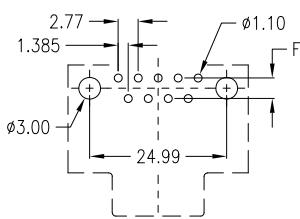
Dimension "E"



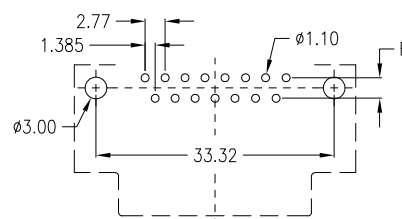
Options



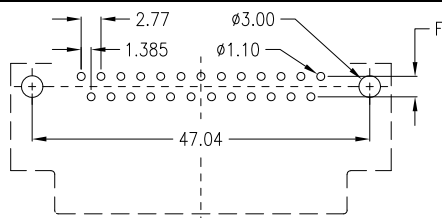
PCB Layout „male“



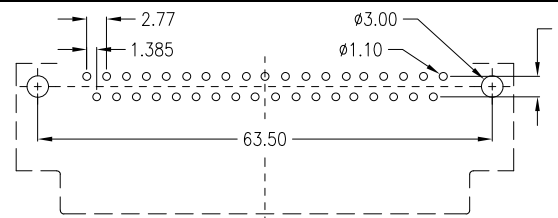
9 pin



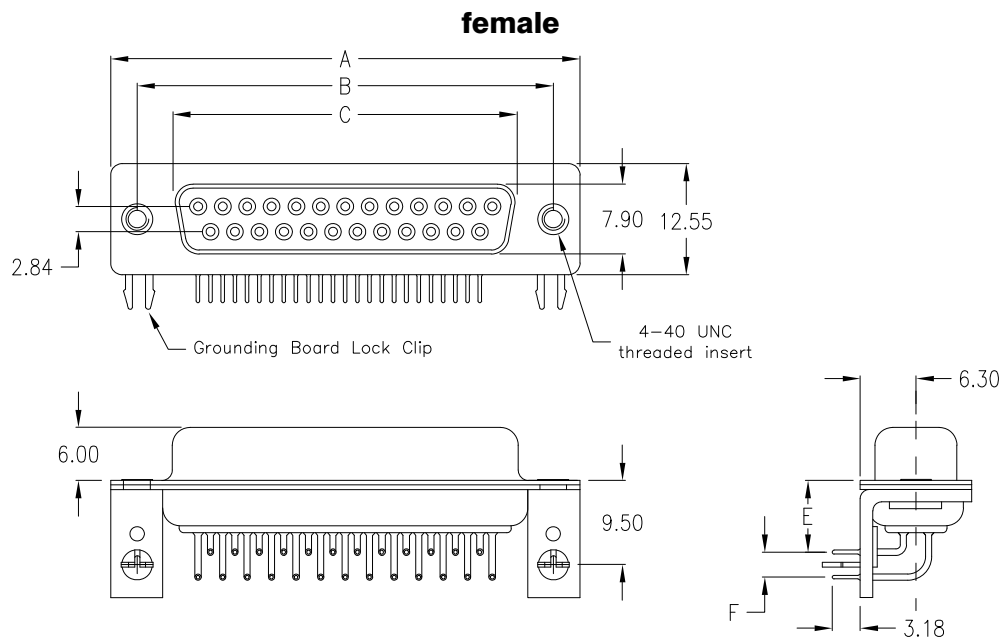
15 pin



25 pin



37 pin



Ordering Code

SDF - xxx - N 901 - 55/ XxXX

No. of contacts

Option

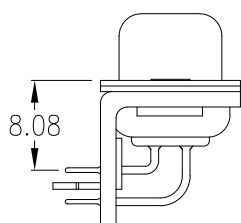
Precision contact

No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
025	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
037	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159

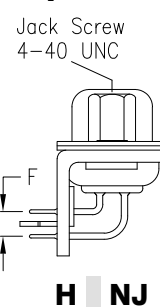
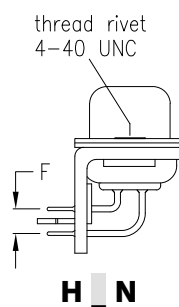
Plating: -55 = Plating gold all over

General Specification page 72

Dimension "E"

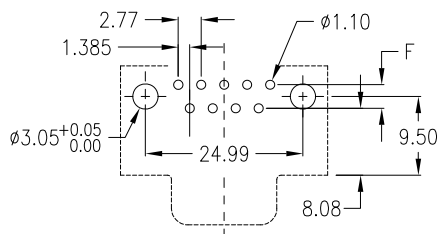


Options

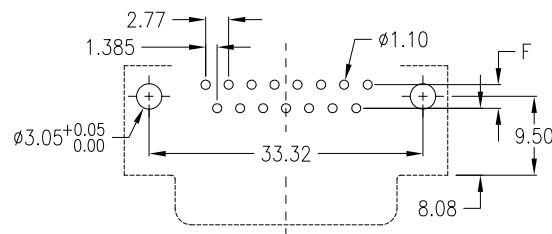


Dimension "F"	Option
2,54mm	1
2,84mm	2

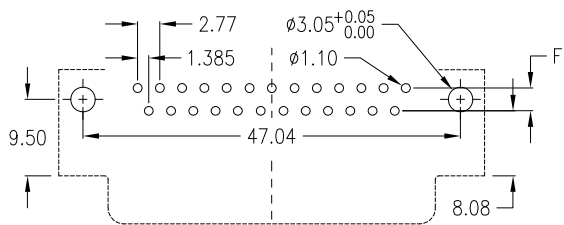
PCB Layout „female“



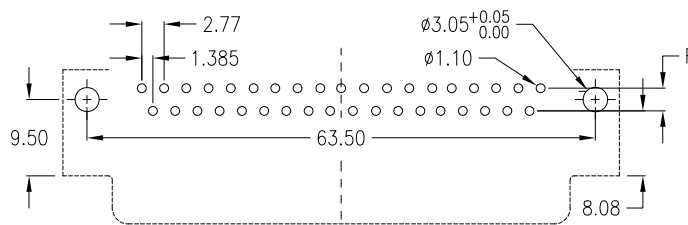
9 pin



15 pin

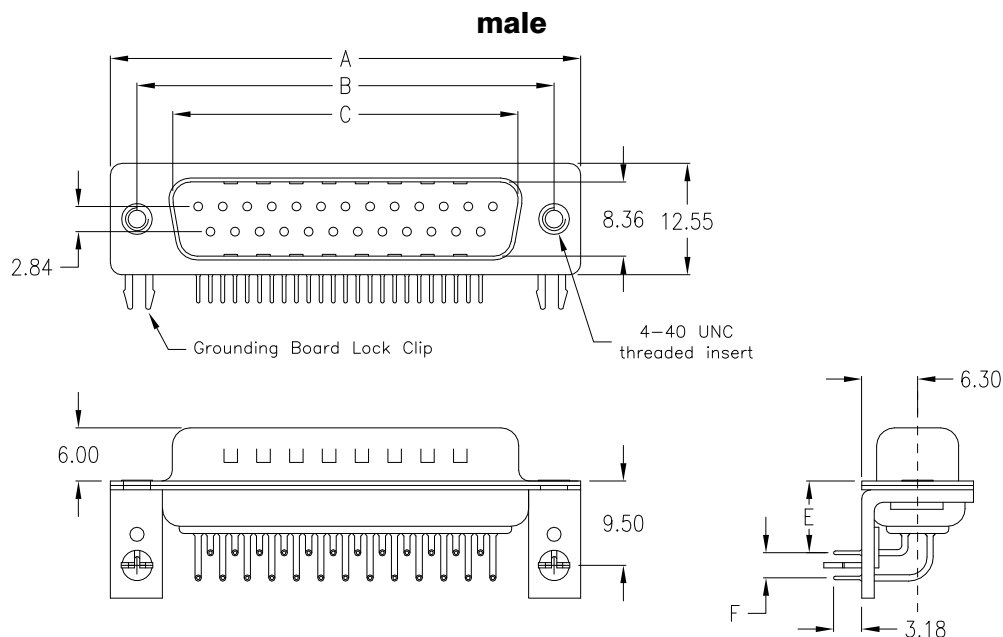


25 pin



37 pin

SD Series - D-Sub 90°
„open body“ 6,30mm/.248" centre type



Ordering Code

SDM - xxx - N 901 - 55/ XxXX

No. of contacts

Option

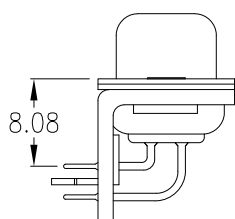
Precision contact

No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u>	<u>24.99</u>	<u>16.92</u>
	1.213	.984	.666
015	<u>39.14</u>	<u>33.32</u>	<u>25.25</u>
	1.541	1.312	.994
025	<u>53.04</u>	<u>47.04</u>	<u>38.96</u>
	2.088	1.852	1.534
037	<u>69.32</u>	<u>63.50</u>	<u>55.42</u>
	2.729	2.500	2.182

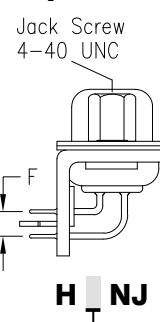
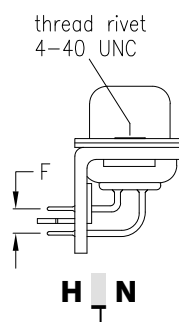
Plating: -55 = Plating gold all over

General Specification page 72

Dimension "E"

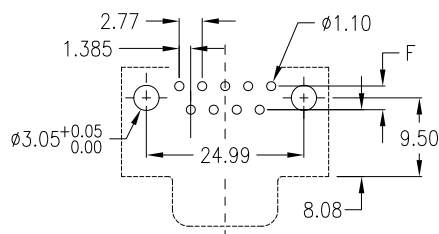


Options

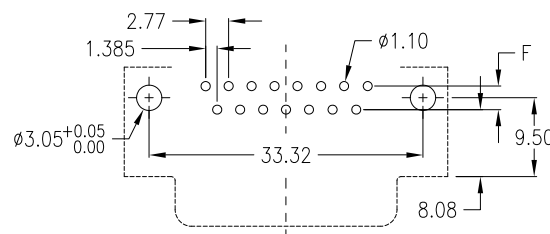


Dimension "F"	Option
2,54mm	1
2,84mm	2

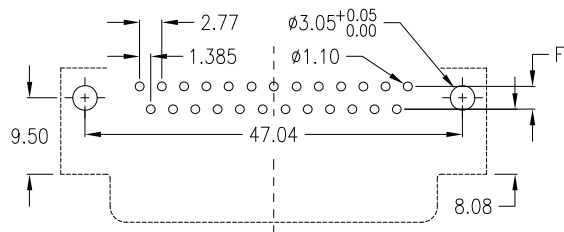
PCB Layout „male“



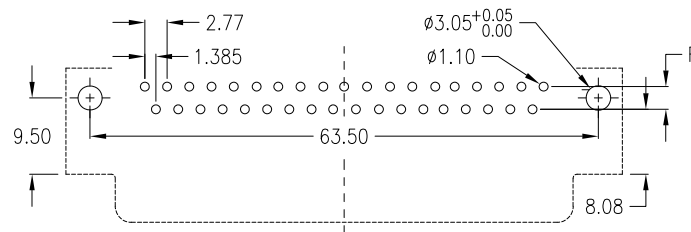
9 pin



15 pin



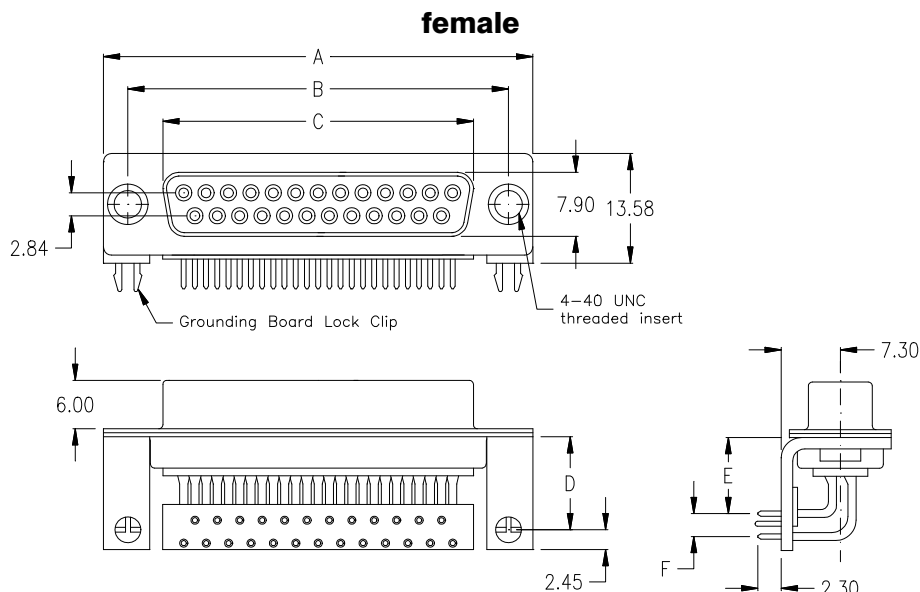
25 pin



37 pin

SD Series - D-Sub 90°

„open body “7,30mm/.287” centre type



Ordering Code

Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

SDF - xxx - T 970 - 55/ XxXX

No. of contacts

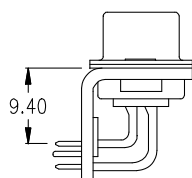
Option

Plating: -55 = gold/gold (-95 = tin(leadfree)/gold on request)

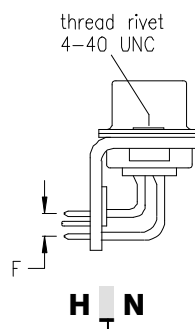
General Specification page 72

No. of contacts	Dimension				
	A	B	C	D if "F"=2,54	D if "F"=2,84
009	30.81 1.213	24.99 .984	16.33 .643	10.07 .396	10.02 .394
015	39.14 1.541	33.32 1.312	24.66 .971	10.07 .396	10.02 .394
025	53.04 2.088	47.04 1.852	38.38 1.511	10.07 .396	10.02 .394
037	69.32 2.729	63.50 2.500	54.84 2.159	10.07 .396	10.02 .394

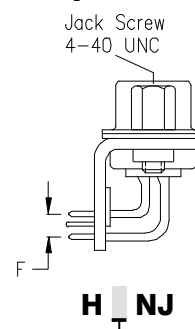
(Dimension "E")



Options



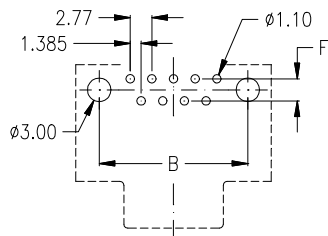
H N



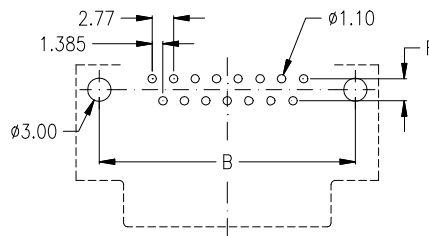
H NJ

Dimension "F"	Option
2,54mm	1
2,84mm	2

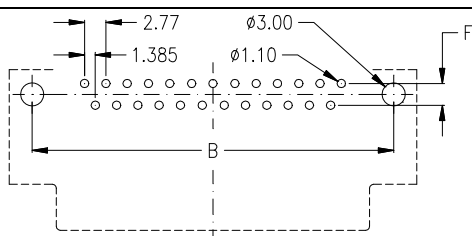
PCB Layout „female“



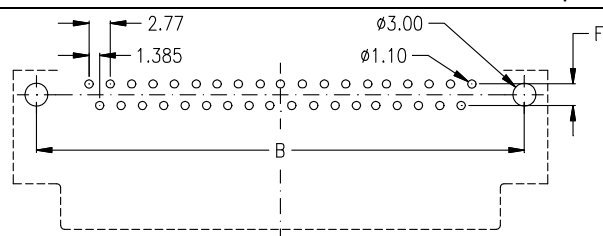
9 pin



15 pin

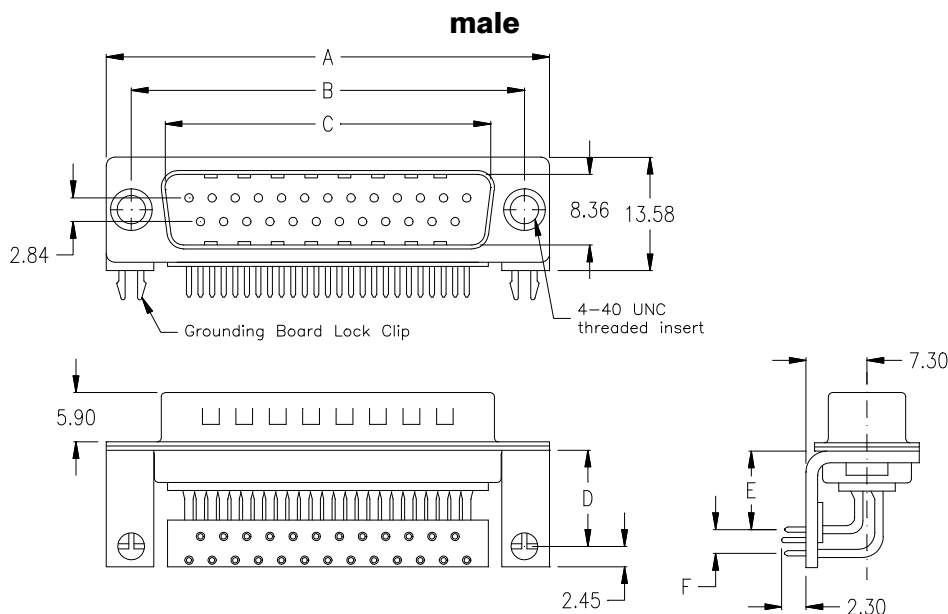


25 pin



37 pin

SD Series - D-Sub 90° „open body “7,30mm/.287” centre type



Ordering Code

Special product.

Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.

SDM - xxx - T 970 - 55/ XxXX

No. of contacts

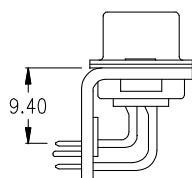
Option

Plating: -55 = gold/gold (-95 = tin(leadfree)/gold on request)

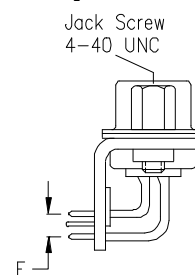
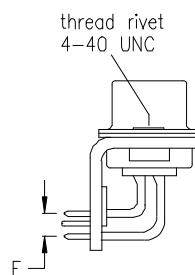
No. of contacts	Dimension				
	A	B	C	D if "F"=2,54	D if "F"=2,84
009	30.81 1.213	24.99 .984	16.92 .666	10.07 .396	10.02 .394
015	39.14 1.541	33.32 1.312	25.25 .994	10.07 .396	10.02 .394
025	53.04 2.088	47.04 1.852	38.96 1.534	10.07 .396	10.02 .394
037	69.32 2.729	69.32 2.729	63.50 2.500	55.42 2.182	10.07 .396

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(Dimension "E")

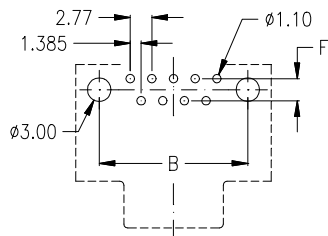


Options

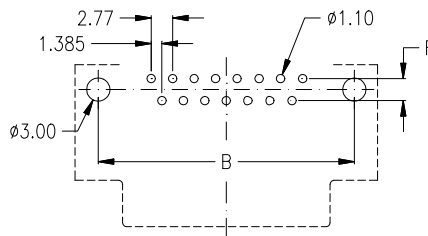


Dimension "F"	Option
2,54mm	1
2,84mm	2

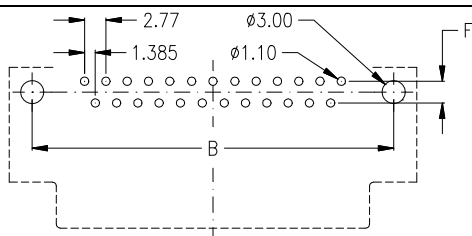
PCB Layout „male“



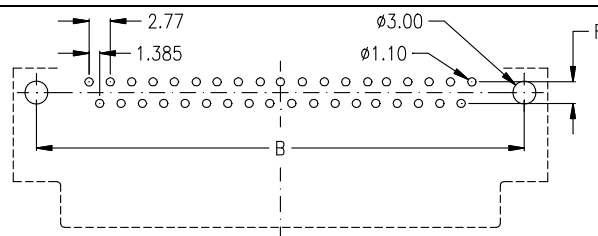
9 pin



15 pin



25 pin



37 pin

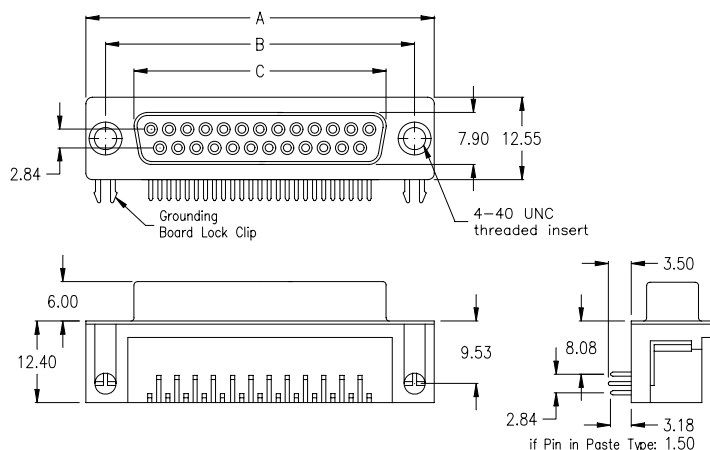
SD Series - D-Sub 90°

"Wave Solder" & "Pin-In-Paste" Technology

N900 8,08mm / .318" „US Style“ Footprint

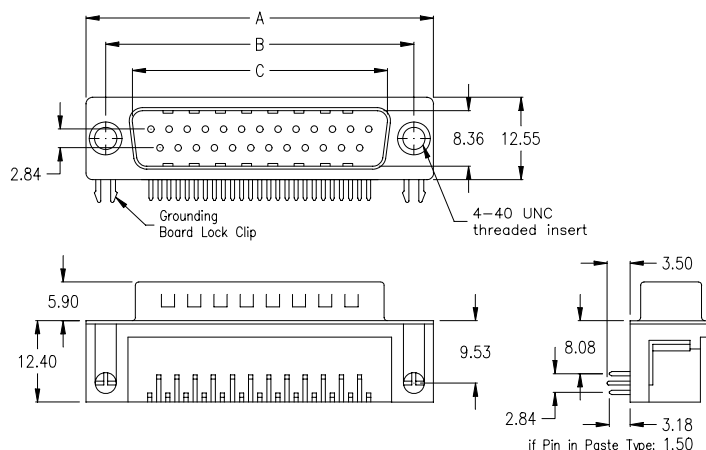


female



PCB hole layout on page 29

male



PCB hole layout on page 29

No. of contacts	Dimension			Ordering Code
	A	B	C	
009	30.81 1.213	24.99 .984	16.33 .643	SDF-009-N900-95/ XX
015	39.14 1.541	33.32 1.311	24.66 .971	SDF-015-N900-95/ XX SDF-015-N900-95/Y XX
025	53.04 2.088	47.04 1.852	38.38 1.511	SDF-025-N900-95/ XX SDF-025-N900-95/B XX
037	69.32 2.729	63.50 2.500	54.84 2.159	SDF-037-N900-95/ XX

Plating: -95 = tin(leadfree)/gold
-55 = gold/gold on request

Option

No. of contacts	Dimension			Ordering Code
	A	B	C	
009	30.81 1.213	24.99 .984	16.92 .666	SDM-009-N900-95/ XX SDM-009-N900-95/T XX
015	39.14 1.541	33.32 1.311	25.25 .994	SDM-015-N900-95/ XX
025	53.04 2.088	47.04 1.852	38.96 1.534	SDM-025-N900-95/ XX
037	69.32 2.729	63.50 2.500	55.42 2.182	SDM-037-N900-95/ XX

Plating: -95 = tin(leadfree) /gold
-55 = gold/gold on request

Option

SDF - xxx- N900 - 95/Y XX = PC99 type yellowish brown
SDF - xxx- N900 - 95/B XX = PC99 type burgundy

Other colour available on request

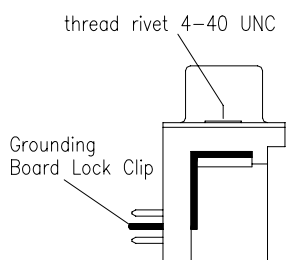
SDM - xxx- N900 - 95/T XX = PC99 type teal

Other colour available on request

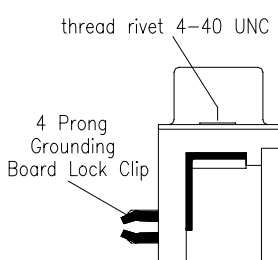
"Pin-In-Paste" Technology - for availability pls. contact info@e-tec.com

General Specification page 72

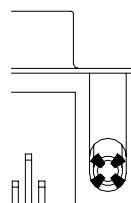
Options



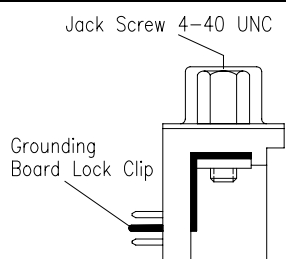
N



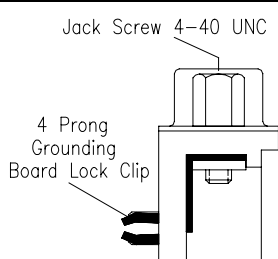
C4



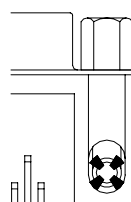
H



NJ



C4J

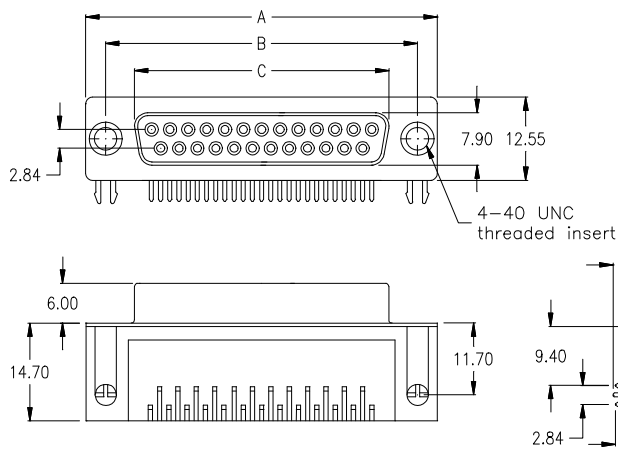


HJ

SD Series - D-Sub 90°
9,40mm / .370" „Euro Style“ Footprint



female



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.33 .643
015	39.14 1.541	33.32 1.312	24.66 .971
025	53.04 2.088	47.04 1.852	38.38 1.511
037	69.32 2.729	63.50 2.500	54.84 2.159

Ordering Code

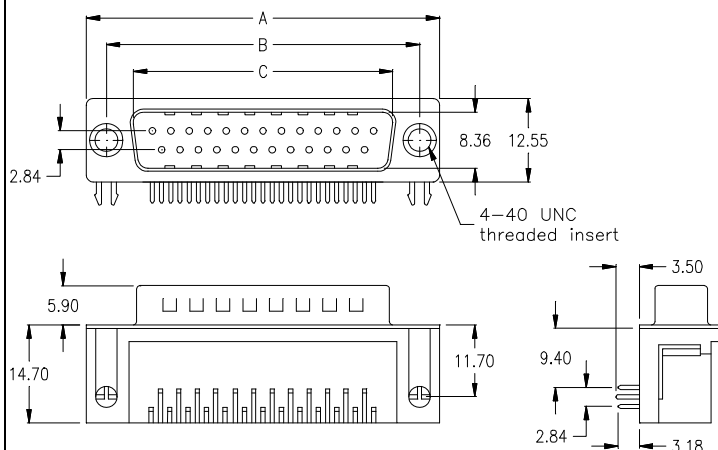
SDF - xxx - M900 - 55 / XX

No. of contacts

Option

Plating: -55 = gold

male



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Ordering Code

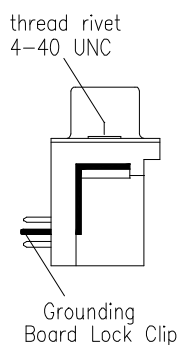
SDM - xxx - M900 - 55 / XX

No. of contacts

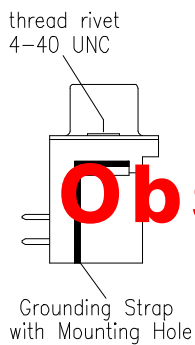
Option

General Specification page 72

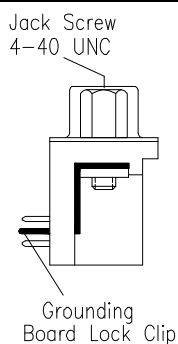
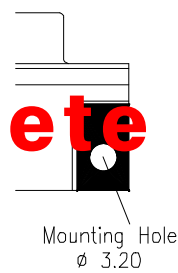
Options



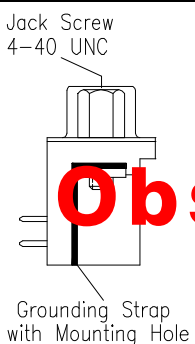
N



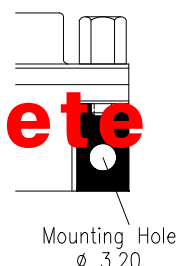
H



NJ



HJ

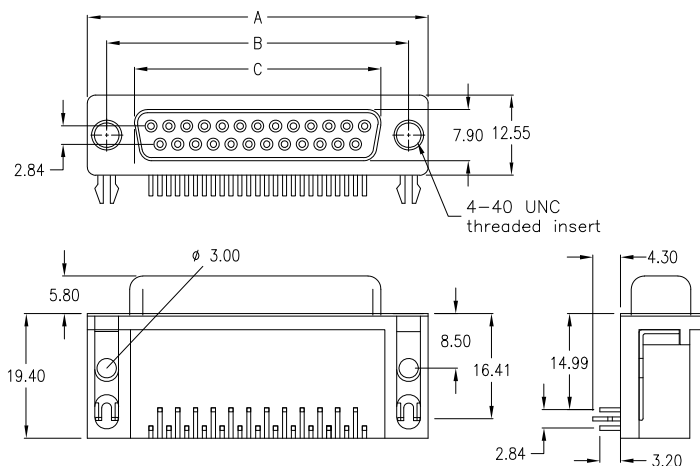


SD Series - D-Sub 90°

15,00mm / .590" „Long Style“ Footprint



female



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.33 .643
015	39.14 1.541	33.32 1.312	24.66 .971
025	53.04 2.088	47.04 1.852	38.38 1.511
037	69.32 2.729	63.50 2.500	54.84 2.159

Ordering Code

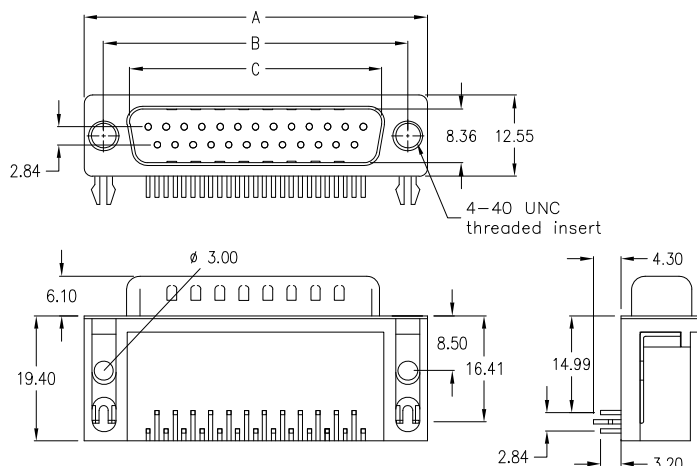
SDF - xxx - L900 - 55 / XX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

male



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Ordering Code

SDM - xxx - L900 - 55 / XX

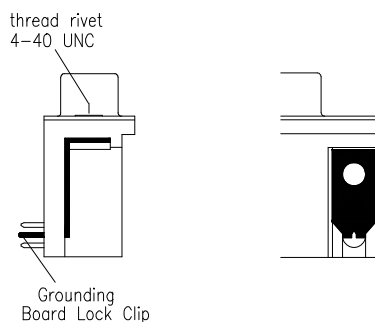
No. of contacts

Option

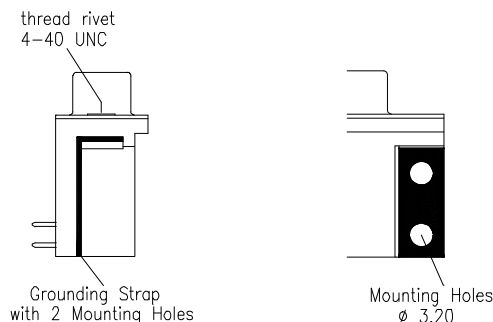
Plating: -95 = tin(leadfree)/gold

General Specification page 72

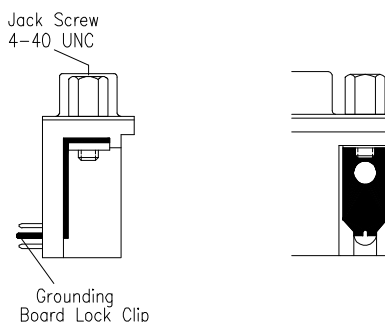
Options



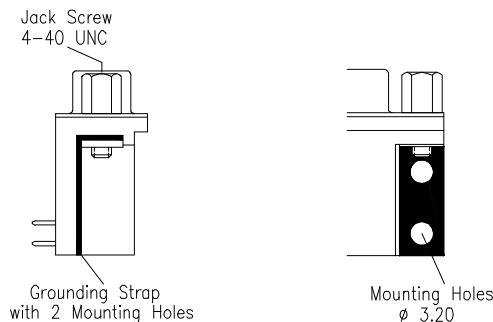
P



L



PJ

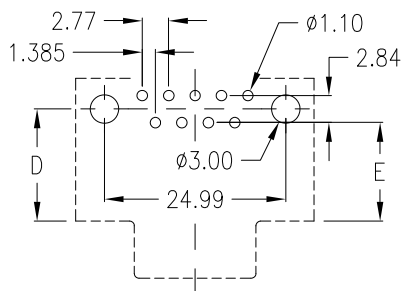


LJ

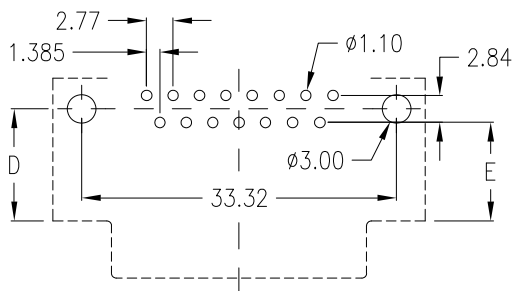
Footprint D-Sub 90° female & male (top view)



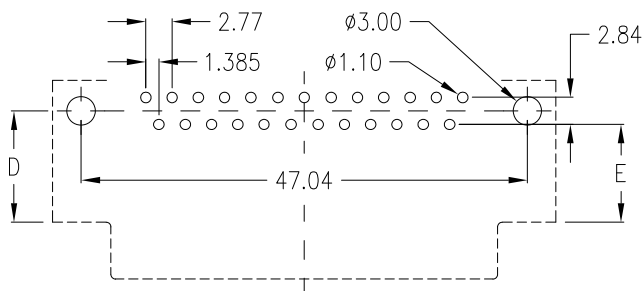
N900 & M900 Type



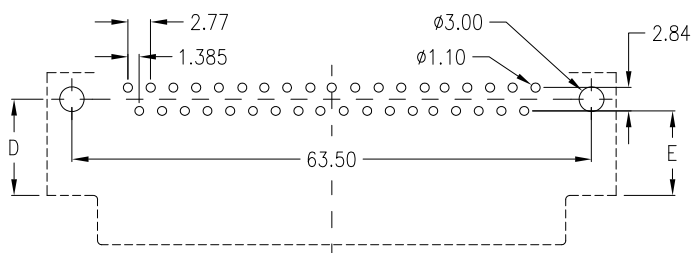
9-pin



15-pin

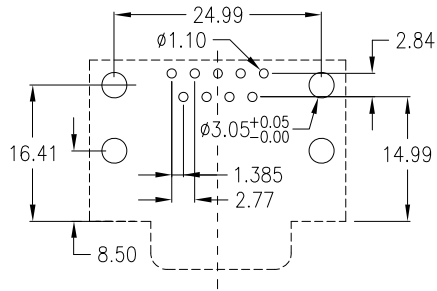


25-pin

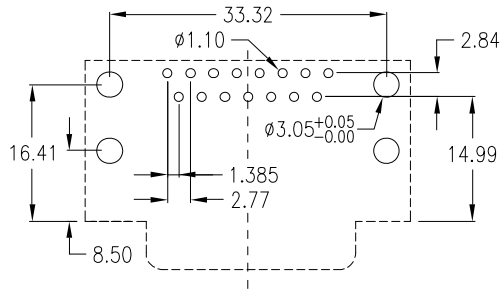


37-pin

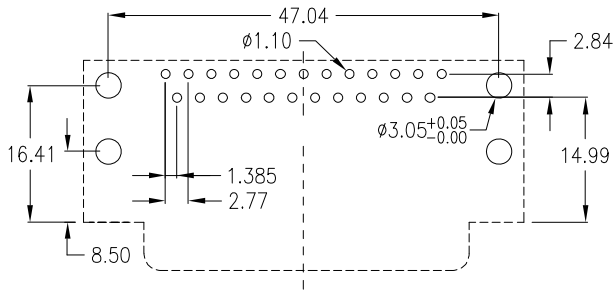
L900 Type



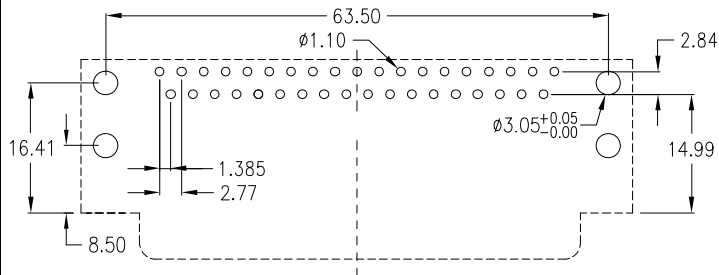
9-pin



15-pin



25-pin



37-pin

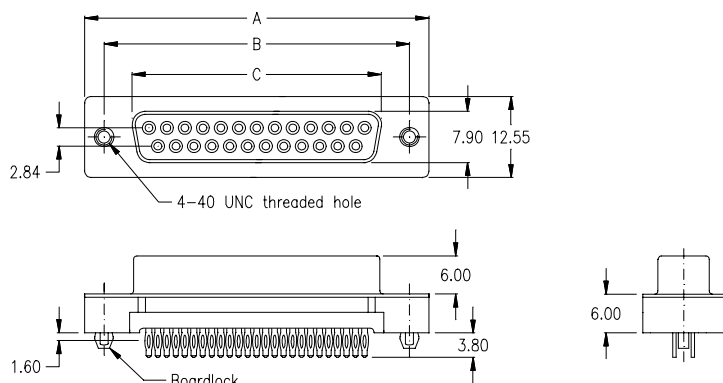
D-Sub Type	Dim. "D" $\pm 0.25/\pm .010$	Dim. "E" $\pm 0.25/\pm .010$
N 900	<u>9.50</u> .374	<u>8.08</u> .318
M 900	<u>11.70</u> .461	<u>10.30</u> .406

SD Series - D-Sub

P150 "press fit" type



female



No. of contacts	Dimension			
	A	B	C	E
009	30.81	24.99	16.33	7.20
	1.213	.984	.643	.283
015	39.14	33.32	24.66	7.20
	1.541	1.312	.971	.283
025	53.04	47.04	38.38	9.40
	2.088	1.852	1.511	.370
037	69.32	63.50	54.84	9.40
	2.729	2.500	2.159	.370

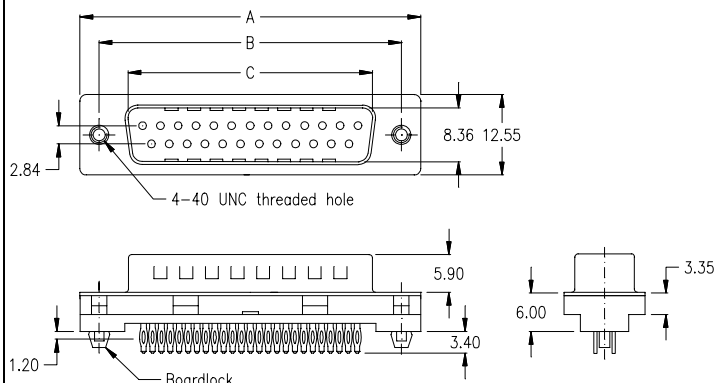
Ordering Code

SDF - xxx - P 150 - 95 / P

No. of contacts

if with Jack Screw assemble to the connector: **PJ**

male



No. of contacts	Dimension			
	A	B	C	E
009	30.81	24.99	16.92	7.20
	1.213	.984	.666	.283
015	39.14	33.32	25.25	7.20
	1.541	1.312	.994	.283
025	53.04	47.04	38.96	9.40
	2.088	1.852	1.534	.370
037	69.32	63.50	55.42	9.40
	2.729	2.500	2.182	.370

Ordering Code

SDM - xxx - P 150 - 95 / P

No. of contacts

if with Jack Screw assemble to the connector: **PJ**

(for Jack Screw dimension etc. pls. see page 70)

PCB - Hole Specification

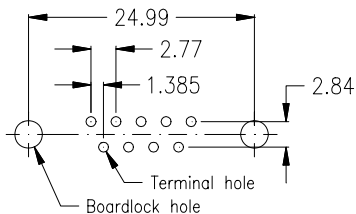
recommended PCB thickness: 1.60mm

terminal hole		boardlock hole	
drilled hole	1.10mm ± 0.02	drilled hole	3.20mm ± 0.02
finished hole	1.00mm ± 0.05	finished hole	3.10mm ± 0.05
Cu	min. 25 μm	Cu	min. 25 μm
Sn	5 - 15 μm	Sn	5 - 15 μm

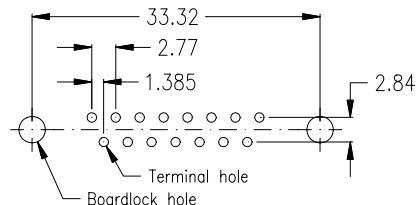
General Specification

Current rating	5 A
Contact resistance	30mΩ max.
Insulator resistance	1.000MΩ min. at 500V DC
Withstanding voltage	1.000V AC (rms) for 1 Minute
Contact material	(RoHS compliant) PhBz
Contact plating	tin (leadfree) / gold
Insulator	(RoHS compliant) Nylon 46
Operating temperature	-55° C to +125° C

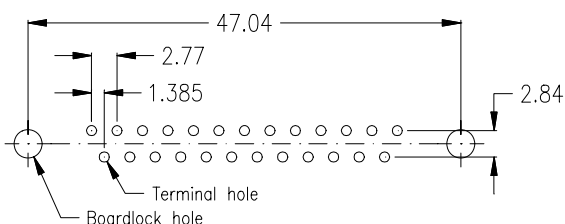
PCB Layout



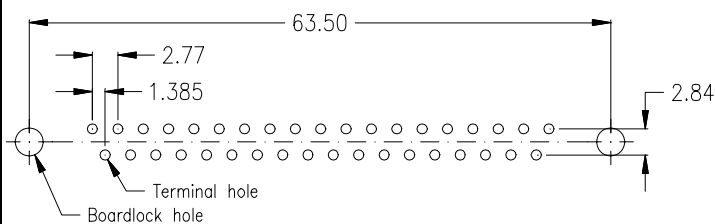
9 pin



15 pin

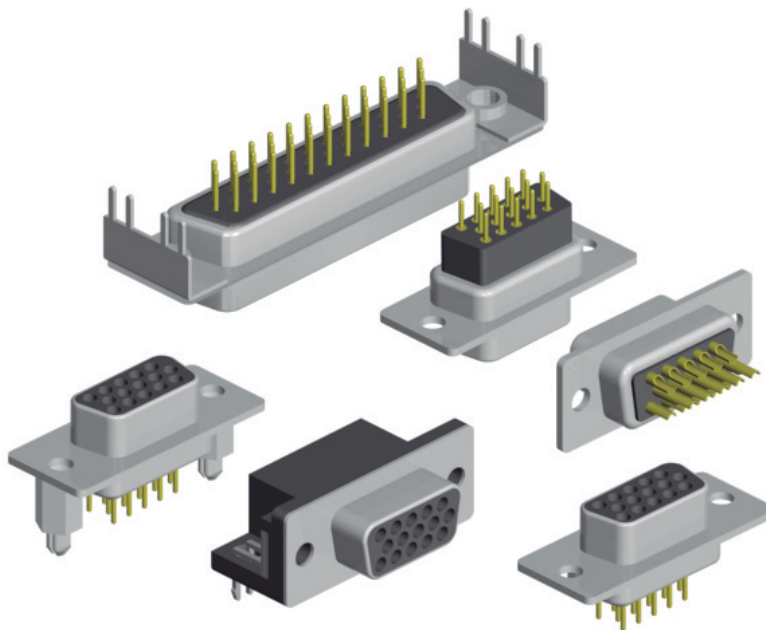


25 pin



37 pin

High Density D-Sub

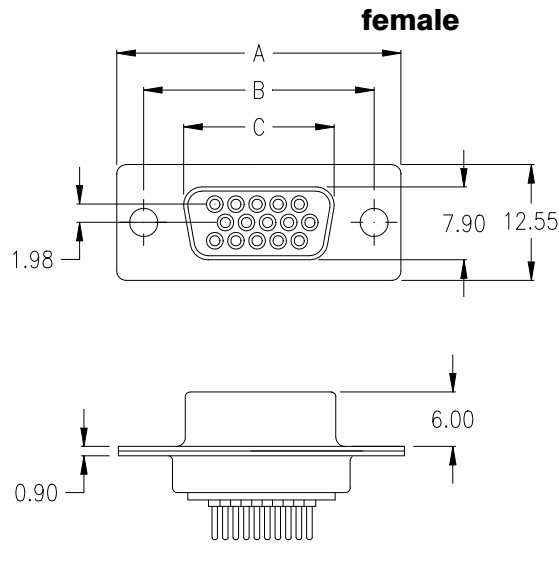


High Density (3 - row) D-Sub family includes hand solder and straight soldertail types.

The right angle types are also available for “Pin-In-Paste” Technology and as “VESA” Type.

A variety of High Density D-Sub Connectors are also available with Ferrite Filter.

SH Series - High Density D-Sub S111 standard soldertail type



Ordering Code

SHF - xxx - S111 - 95 / XXX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

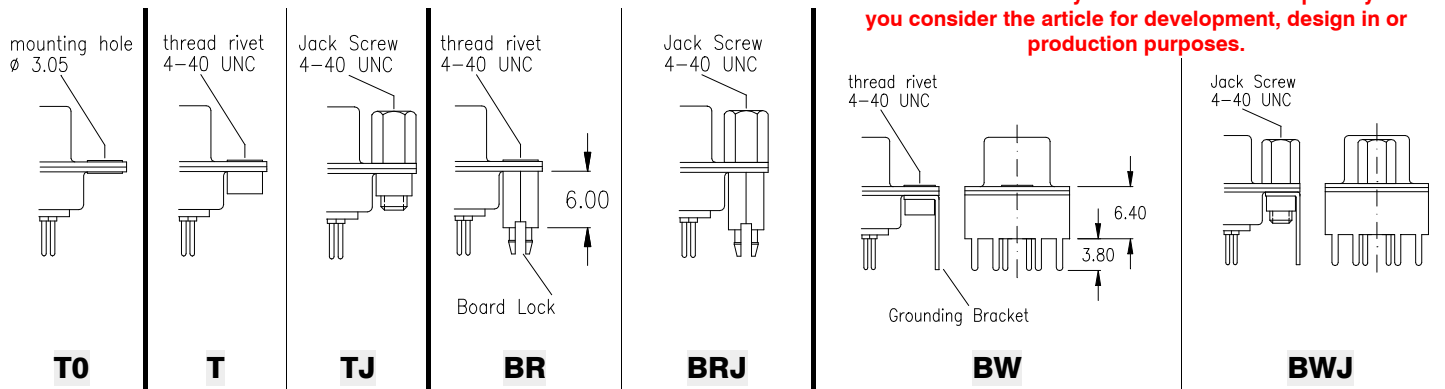
General Specification page 72

No. of contacts	Dimension		
	A	B	C
015	30.81	24.99	16.33
	1.213	.984	.643
026	39.14	33.32	24.66
	1.541	1.312	.971
044	53.04	47.04	38.38
	2.088	1.852	1.511
062	69.32	63.50	54.84
	2.729	2.500	2.159

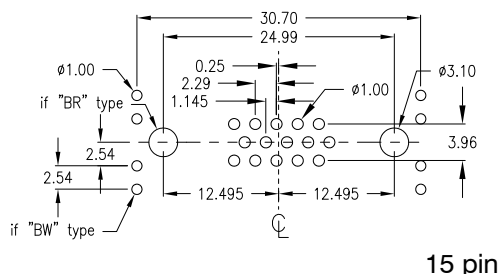
Options

Special product.

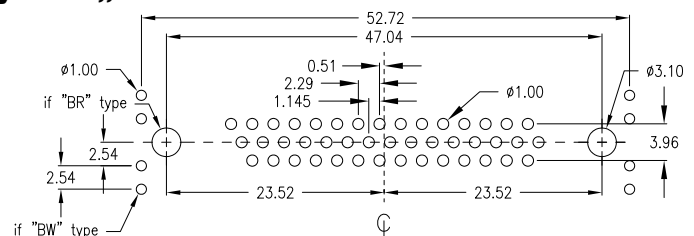
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.



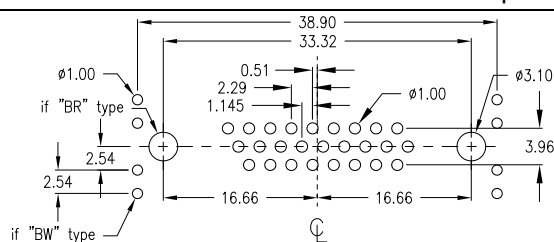
PCB Layout „female“



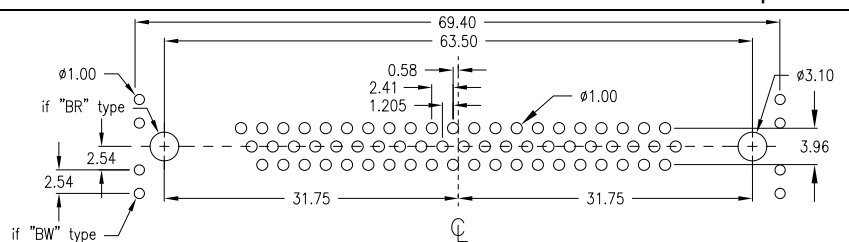
15 pin



44 pin



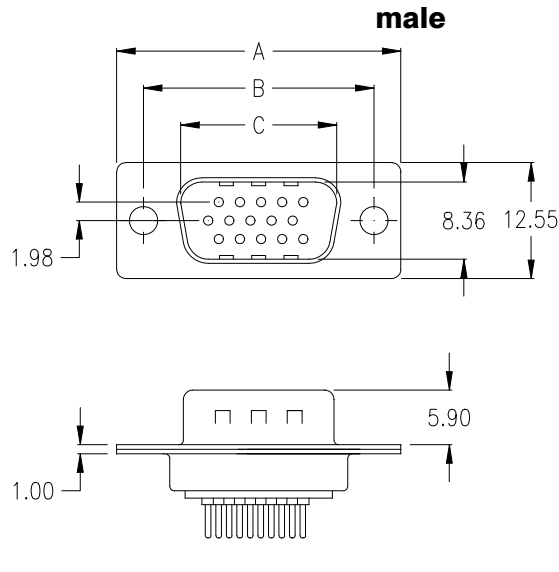
26 pin



62 pin

SH Series - High Density D-Sub

S111 standard soldertail type



Ordering Code

SHM - xxx - S111 - 95 / XXX

No. of contacts

Option

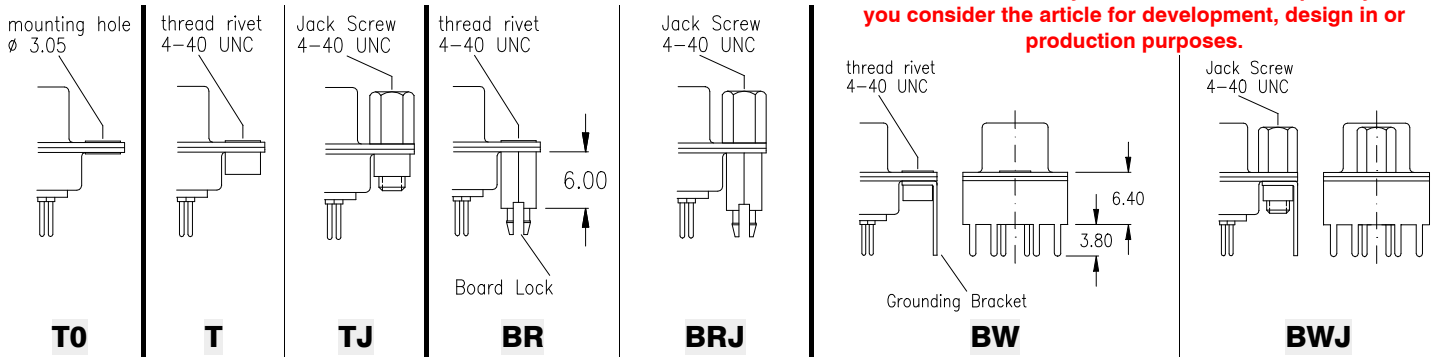
Plating: -95 = tin(leadfree)/gold

General Specification page 72

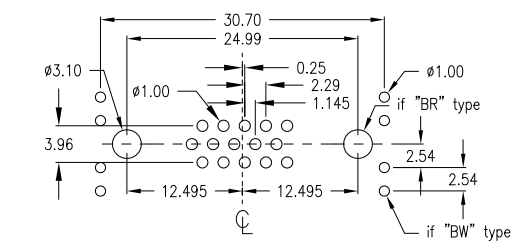
No. of contacts	Dimension		
	A	B	C
015	30.81	24.99	16.92
	1.213	.984	.666
026	39.14	33.32	25.25
	1.541	1.312	.994
044	53.04	47.04	38.96
	2.088	1.852	1.534
062	69.32	63.50	55.42
	2.729	2.500	2.182

Options

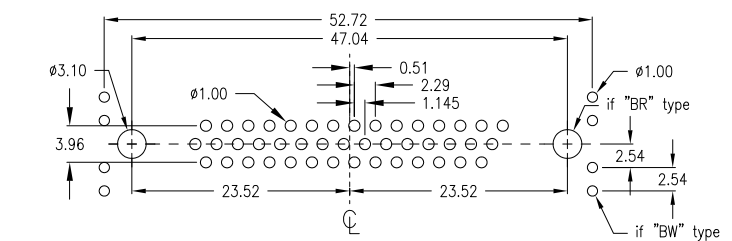
Special product.
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.



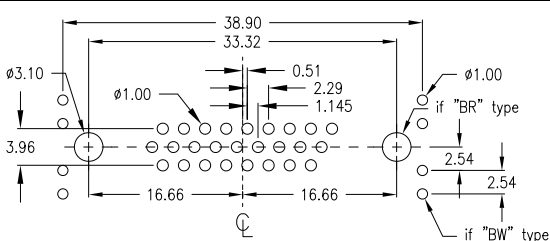
PCB Layout „male“



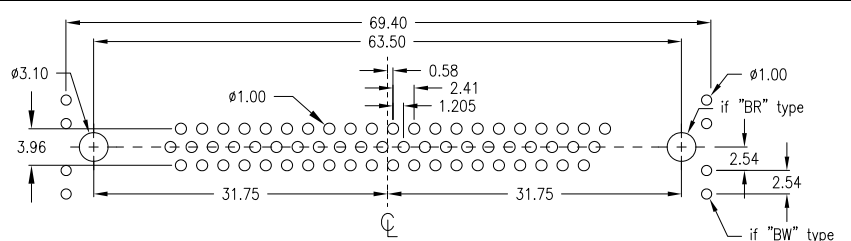
15 pin



44 pin



26 pin



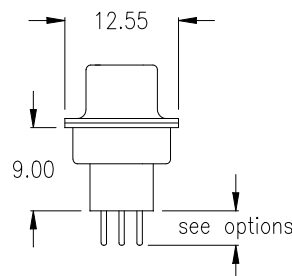
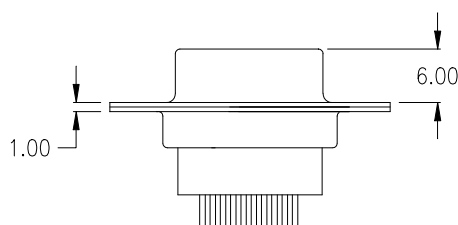
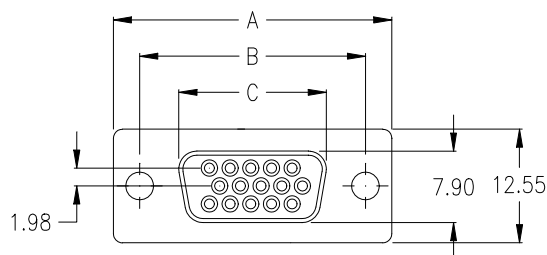
62 pin

SH Series - High Density D-Sub

B111 raised soldertail type



female



Ordering Code

SHF - xxx - B111 - 95 / XXX

No. of contacts

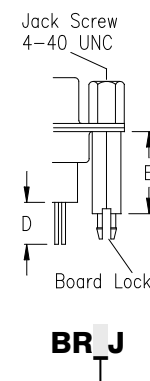
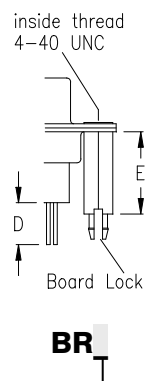
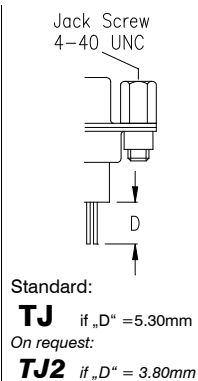
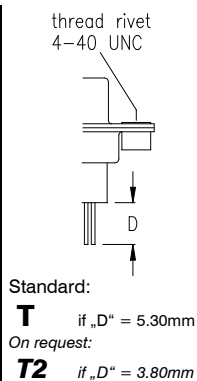
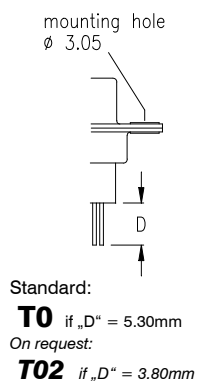
Option

Plating: -95 = tin (leadfree)/gold

General Specification page 72

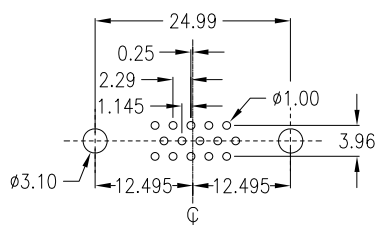
No. of contacts	Dimension		
	A	B	C
015	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
026	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
044	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
062	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159

Options

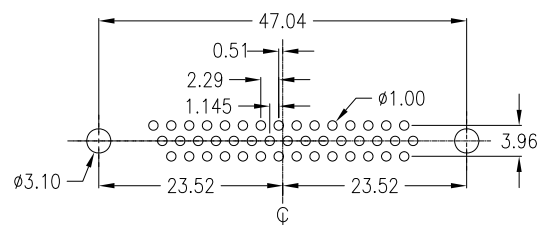


D	E	Option
3,80	9,60	1
5,30	11,00	2
7,20	12,70	3
7,40	13,50	5

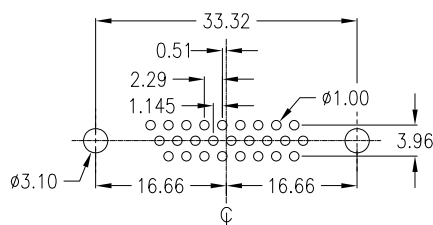
PCB Layout „female“



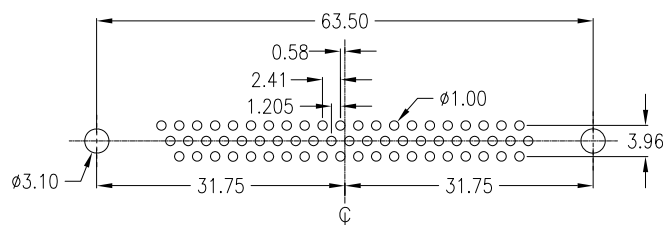
15 pin



44 pin



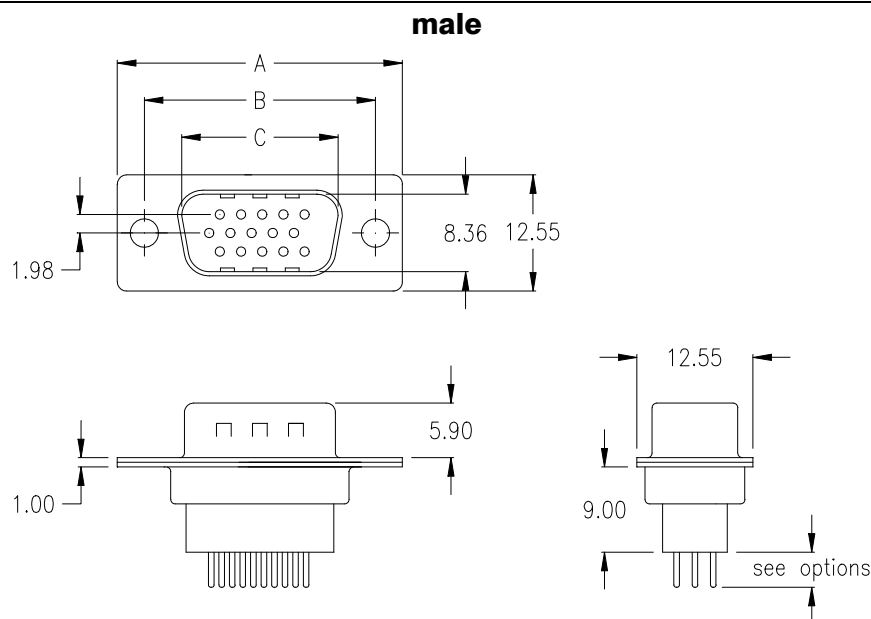
26 pin



62 pin

SH Series - High Density D-Sub

B111 raised soldertail type



Ordering Code

SHM - xxx - B111 - 55 / XXX

No. of contacts

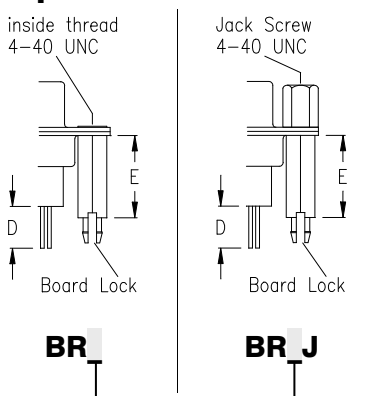
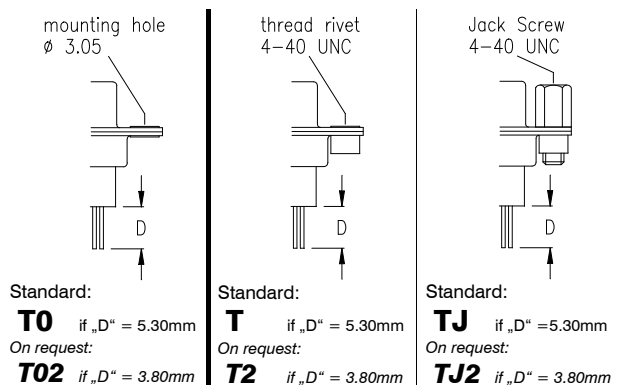
Option

Plating: **-55** = gold

General Specification page 72

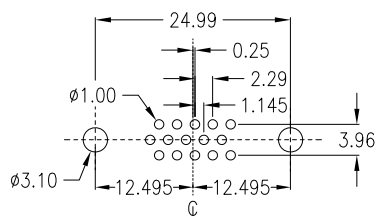
No. of contacts	Dimension		
	A	B	C
015	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.92</u> .666
026	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>25.25</u> .994
044	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.96</u> 1.534
062	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>55.42</u> 2.182

Options

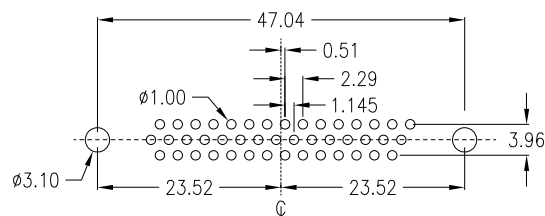


D	E	Option
3,80	9,60	1
5,30	11,00	2
7,20	12,70	3
7,40	13,50	5

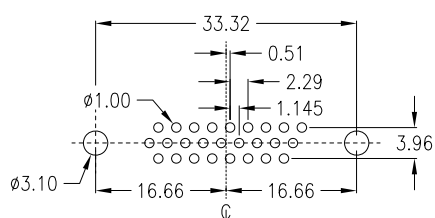
PCB Layout „male“



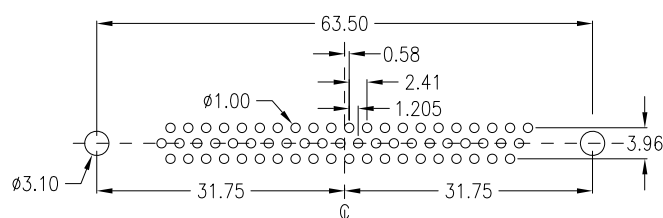
15 pin



44 pin



26 pin



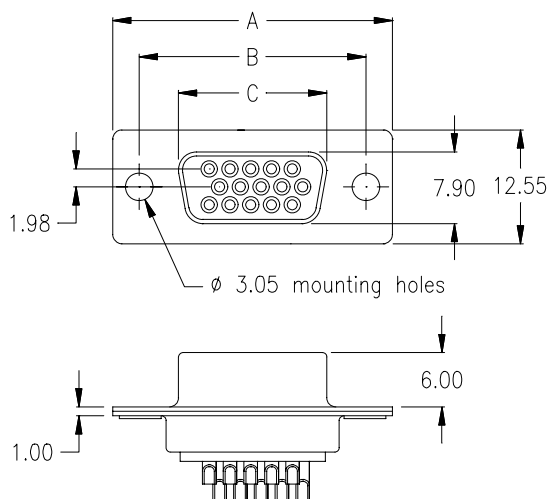
62 pin

SH Series - High Density D-Sub

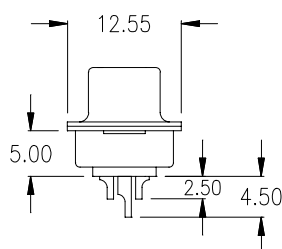
S101 solder cup type



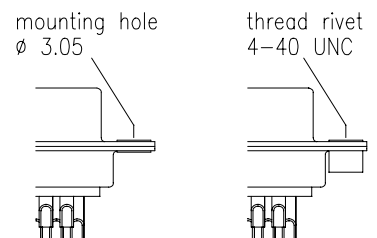
female



No. of contacts	Dimension		
	A	B	C
015	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
026	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
044	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
062	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159



Option:



Ordering Code

SHF - xxx - S101 - 95 / XX

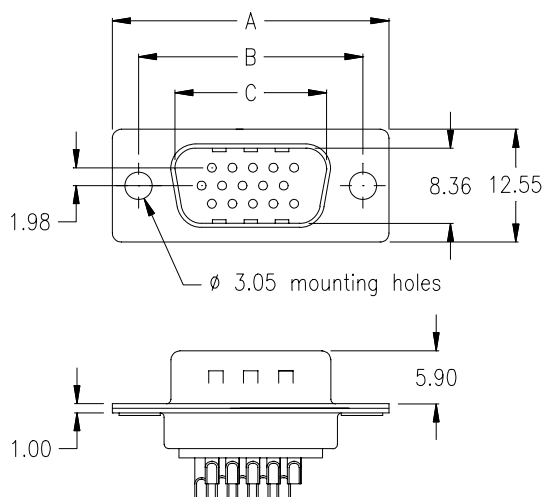
No. of contacts

Option

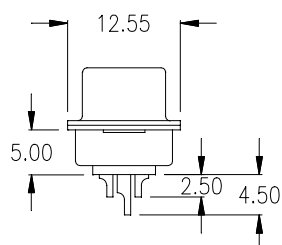
General Specification page 72

Plating: -95 = tin(leadfree)/gold

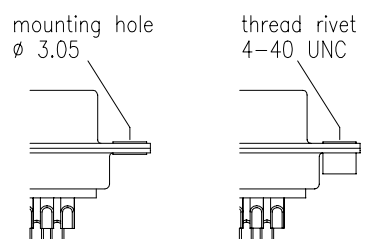
male



No. of contacts	Dimension		
	A	B	C
015	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.92</u> .666
026	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>25.25</u> .994
044	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.96</u> 1.534
062	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>55.42</u> 2.182



Option:



Ordering Code

SHM - xxx - S101 - 95 / XX

No. of contacts

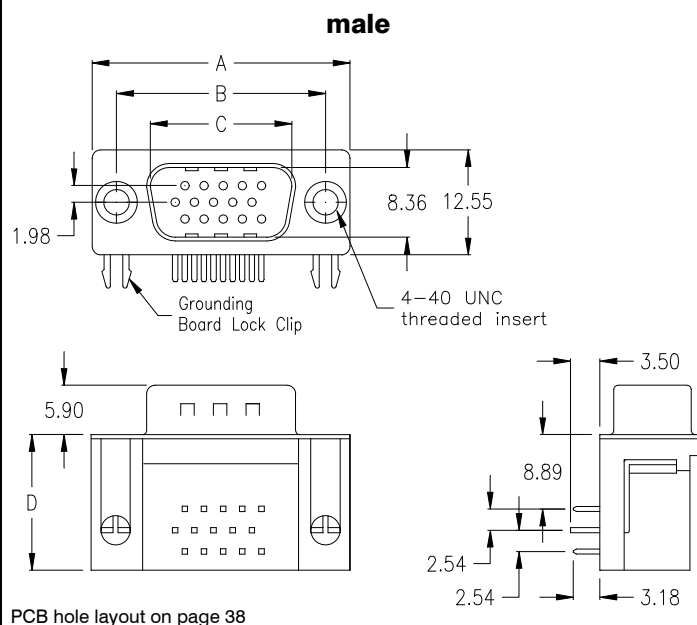
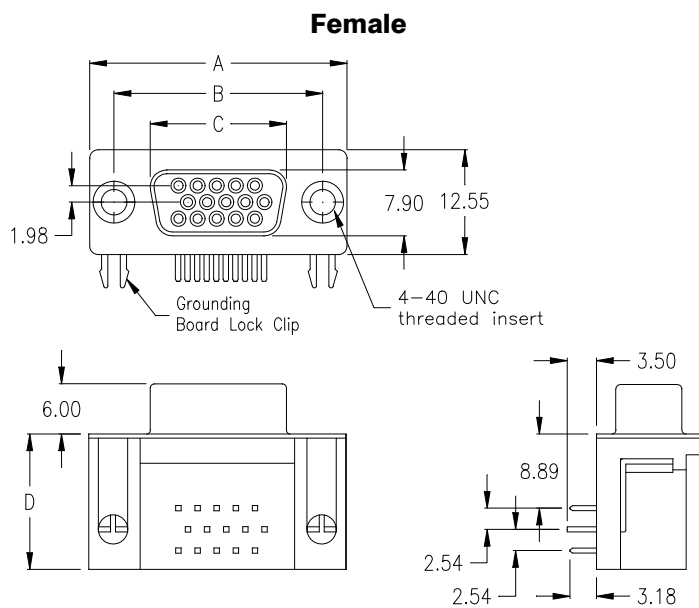
Option

General Specification page 72

Plating: -95 = tin(leadfree)/gold

SH Series - High Density D-Sub 90°

F900 “Wave Solder” & “Pin-In-Paste” Technology



No. of contacts	Dimension				Ordering Code
	A	B	C	D	
015	30.81 1.213	24.99 .984	16.33 .643	16.22 .639	SHF-015-F900-55/ XX SHF-015-F900-95/V XX
026	39.14 1.541	33.32 1.311	24.66 .971	16.22 .639	SHF-026-F900-55/ XX
044	53.04 2.088	47.04 1.852	38.38 1.511	16.22 .639	SHF-044-F900-55/ XX
062	69.32 2.729	63.50 2.500	54.84 2.159	16.22 .639	SHF-062-F900-55/ XX

Plating: **-55** = gold/gold (not available for **VESA** Type)
-95 = tin(**leadfree**)/gold

Option

No. of contacts	Dimension				Ordering Code
	A	B	C	D	
015	30.81 1.213	24.99 .984	16.92 .666	16.22 .639	SHM-015-F900-55/ XX
026	39.14 1.541	33.32 1.311	25.25 .994	16.22 .639	SHM-026-F900-55/ XX
044	53.04 2.088	47.04 1.852	38.96 1.534	16.22 .639	SHM-044-F900-55/ XX
062	69.32 2.729	63.50 2.500	55.42 2.182	16.22 .639	SHM-062-F900-55/ XX

Plating: **-55** = gold/gold
-95 = tin(**leadfree**)/gold (only on request)

Option

SHF - xxx - F900 - 95/V XX = **VESA** Type – blue colour insulator
 Contact #9 recessed 1.27mm to allow last mate,
 first break on 5V supply

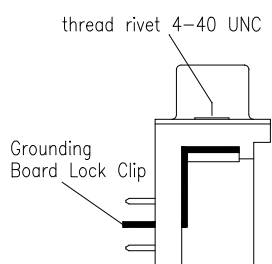
”Pin-In-Paste“ Technology - for availability pls. contact info@e-tec.com

General Specification page 72

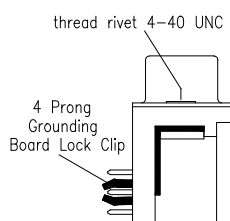
Options

Special product.

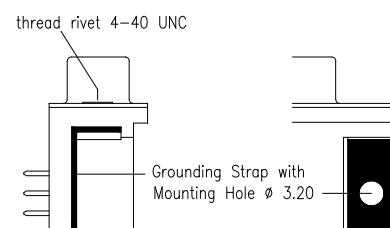
Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.



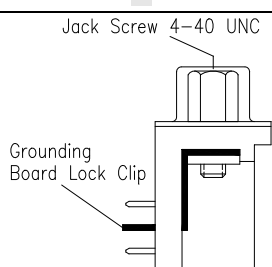
N



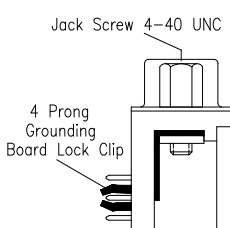
C4



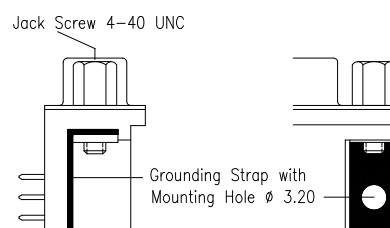
H not available with 78-contact



NJ

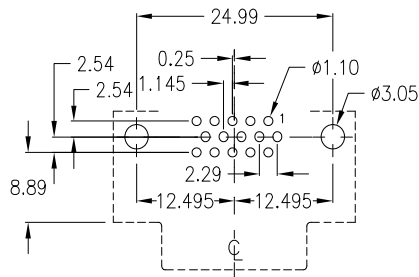


C4J

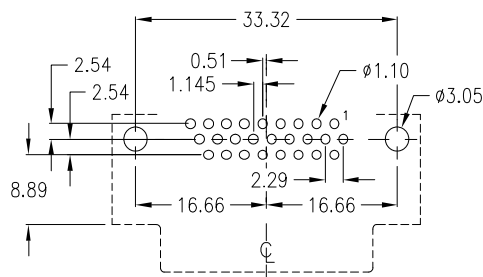


HJ not available with 78-contact

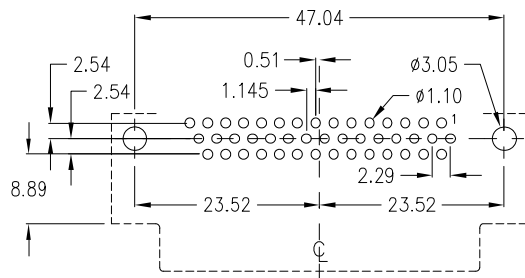
female



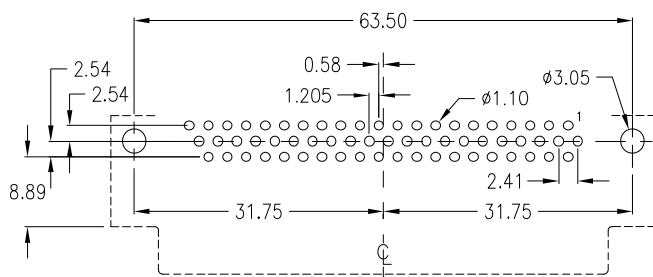
15-pin



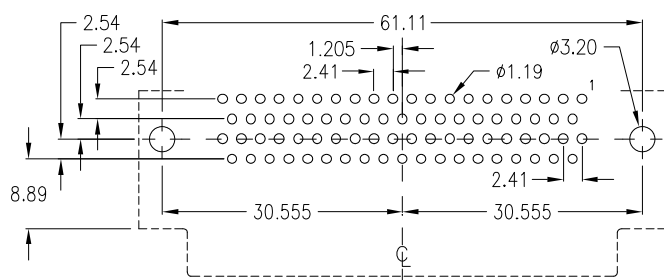
26-pin



44-pin

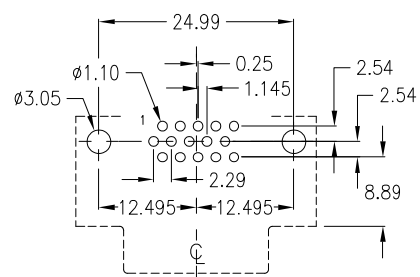


62-pin

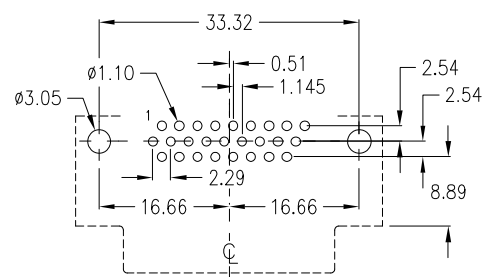


78-pin

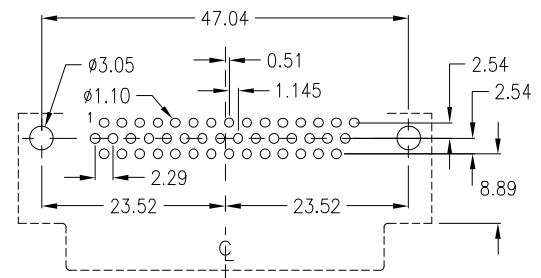
male



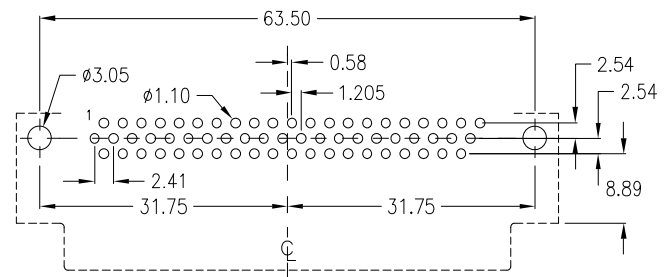
15-pin



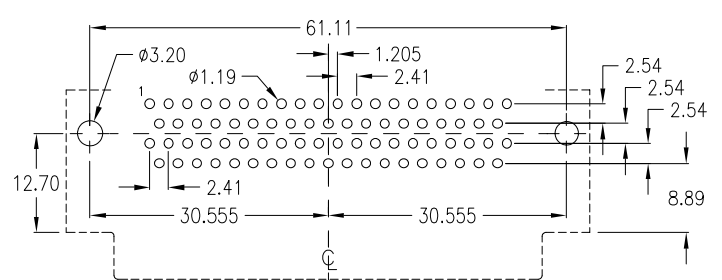
26-pin



44-pin



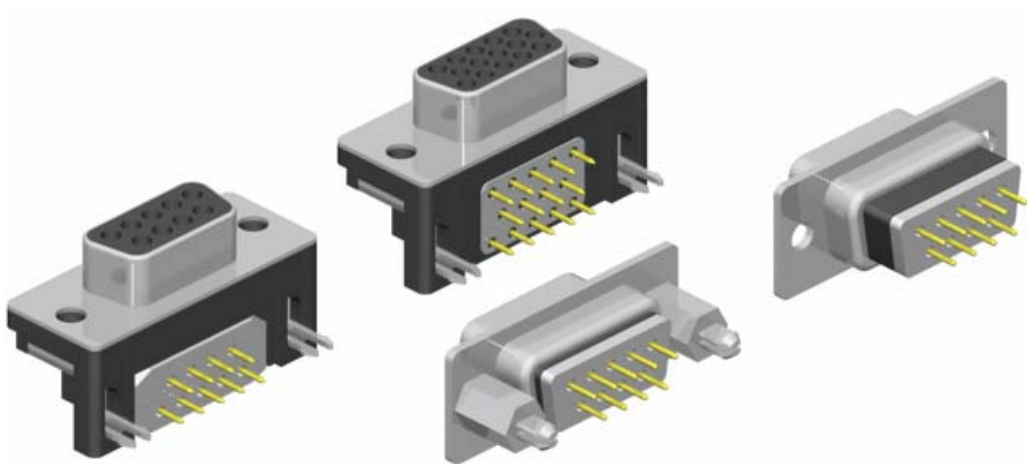
62-pin



78-pin

Ferrite Filter

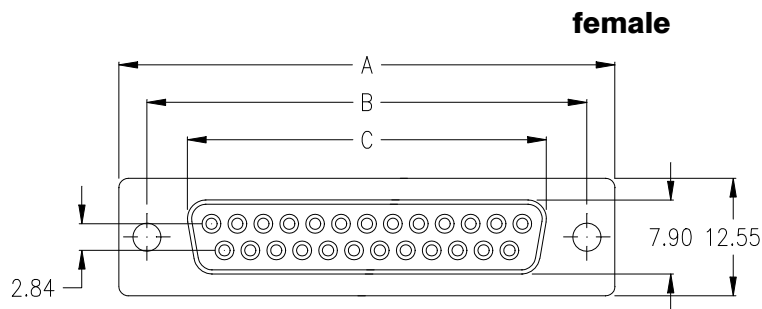
D-Sub



D-Sub Filter Connectors are the ideal solution to reduce or eliminate „electro magnetic interference“ (EMI).

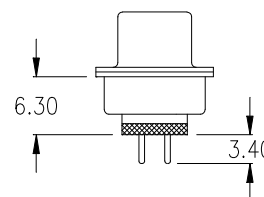
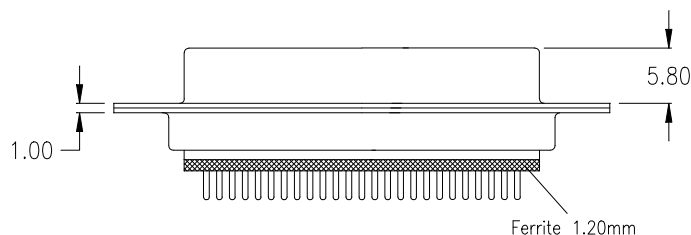
Many different types, straight, right angle single and dual port, as well as High Density versions are available.

Capacitance D-Sub Filter Connectors are available on request.



FERRITE SPECIFICATION

No. of Contact	Measured Value(OHM)	Test Frequency	Ferrite thickness
009	20 min. 40 min.	25 MHz 100 MHz	1.20mm
015	15 min. 35 min.	25 MHz 100 MHz	
025	15 min. 40 min.	25 MHz 100 MHz	
037	20 min. 50 min.	25 MHz 100 MHz	



Ordering Code

SDF - xxx - S111 - 95 / F XXX

No. of contacts

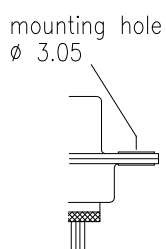
Option

Plating: -95= tin(leadfree)/gold

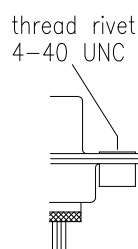
General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.33</u> .643
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>24.66</u> .971
025	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.38</u> 1.511
037	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>54.84</u> 2.159

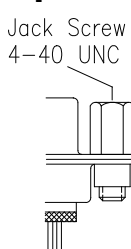
Options



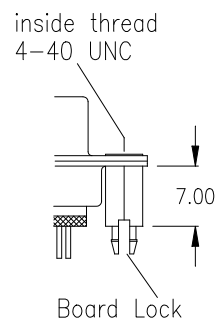
T0



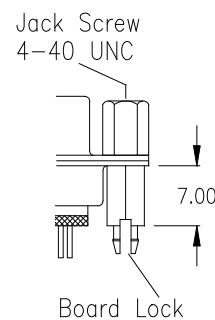
T



TJ

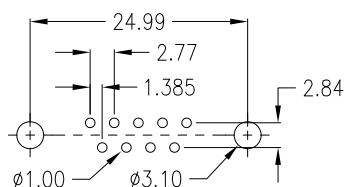


BR

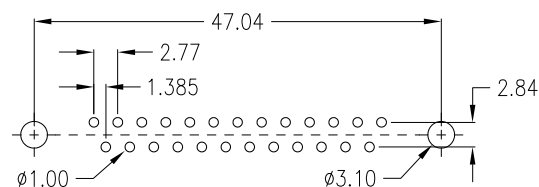


BRJ

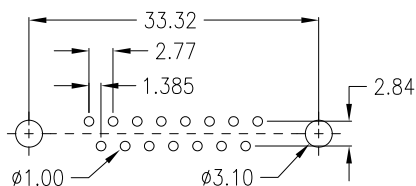
PCB Layout „female“



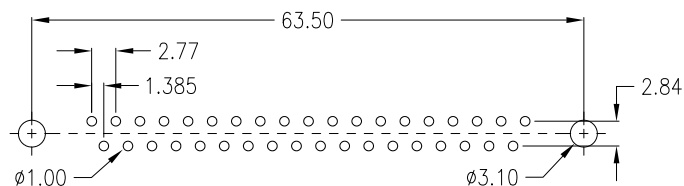
9 pin



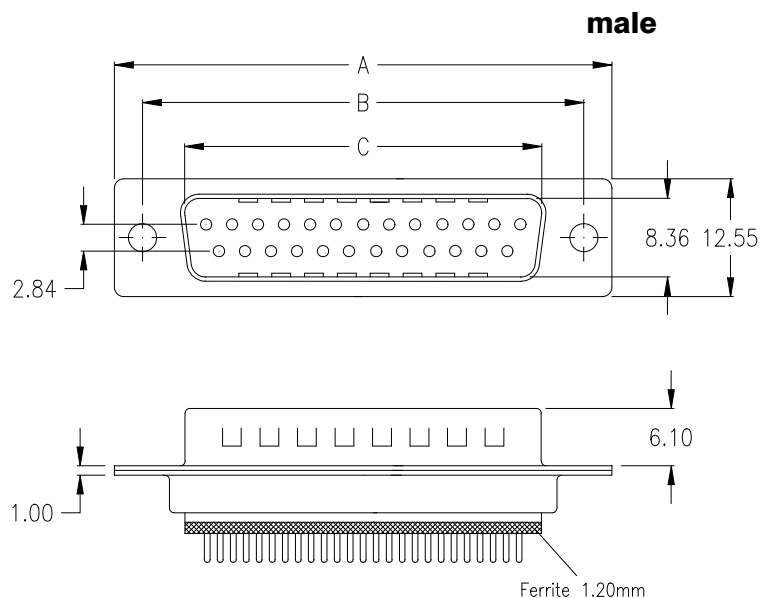
25 pin



15 pin

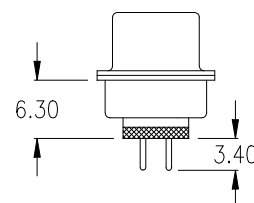


37 pin



FERRITE SPECIFICATION

No of Contact	Measured Value(OHM)	Test Frequency	Ferrite thickness
009	20 min. 40 min.	25 MHz 100 MHz	1.20mm
015	15 min. 35 min.	25 MHz 100 MHz	
025	15 min. 40 min.	25 MHz 100 MHz	
037	20 min. 50 min.	25 MHz 100 MHz	



Ordering Code

SDM - xxx - S111 - 95 / F XXX

No. of contacts

Option

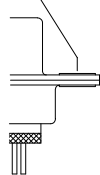
Plating: -95 = tin(leadfree)/gold

General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

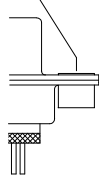
Options

mounting hole
ø 3.05



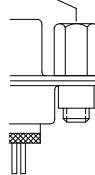
T0

thread rivet
4-40 UNC



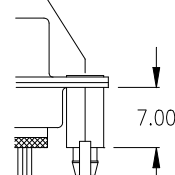
T

Jack Screw
4-40 UNC



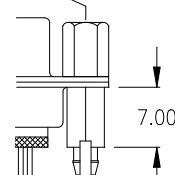
TJ

inside thread
4-40 UNC



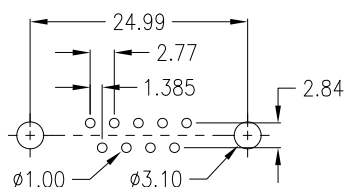
BR

Jack Screw
4-40 UNC

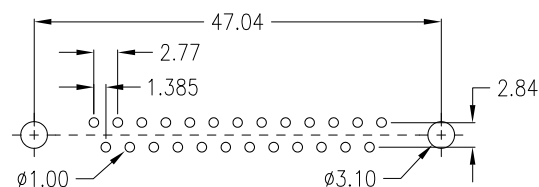


BRJ

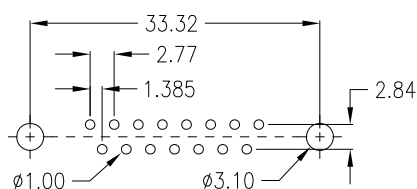
PCB Layout „male“



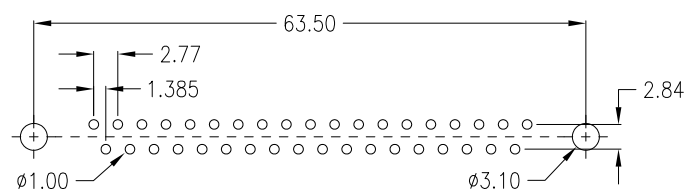
9 pin



25 pin



15 pin

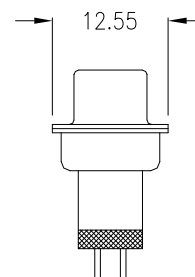
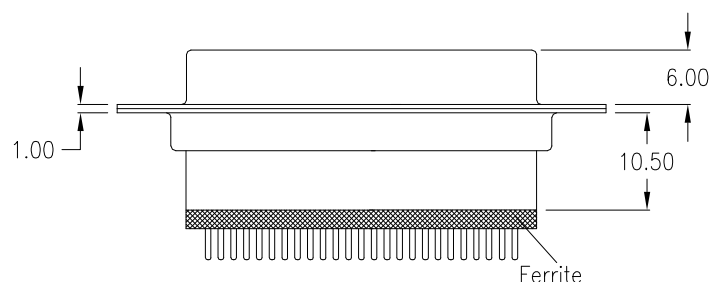
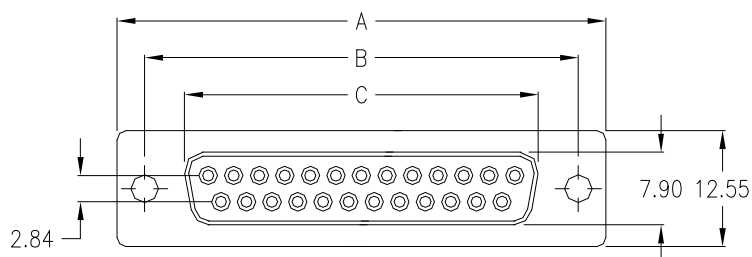


37 pin

SD Series - D-Sub with Ferrite Filter
B111 raised soldertail type



female



Ordering Code

SDF - xxx - B111 - 95 / F XXX

No. of contacts

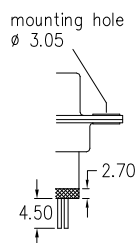
Option

Plating: -95 = tin(leadfree)/gold

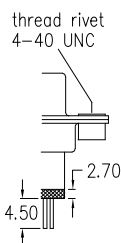
General Specification page 72

No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.33 .643
015	39.14 1.541	33.32 1.312	24.66 .971
025	53.04 2.088	47.04 1.852	38.38 1.511
037	69.32 2.729	63.50 2.500	54.84 2.159

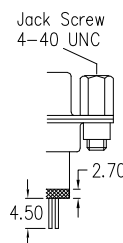
Options



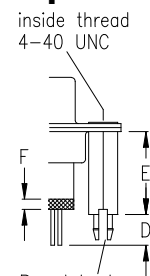
T0



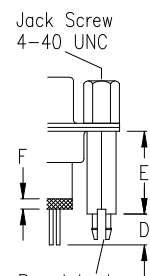
T



TJ



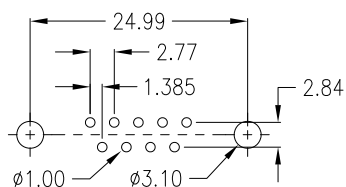
BR



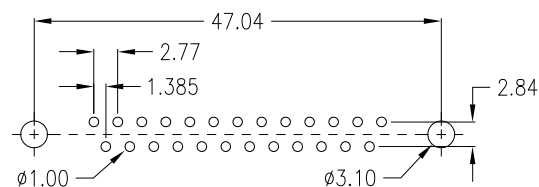
BR J

D	E	F	Option
3.00	12,70	1.20	3
3.20	14,50	2.70	4

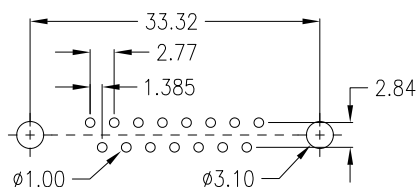
PCB Layout „female“



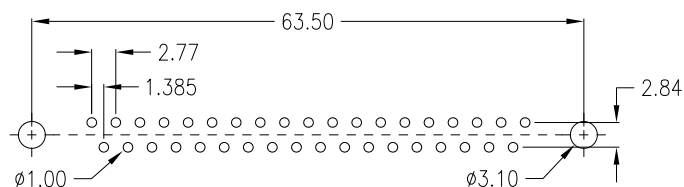
9 pin



25 pin



15 pin



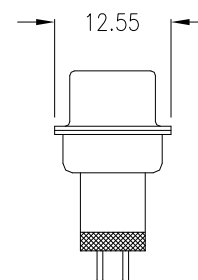
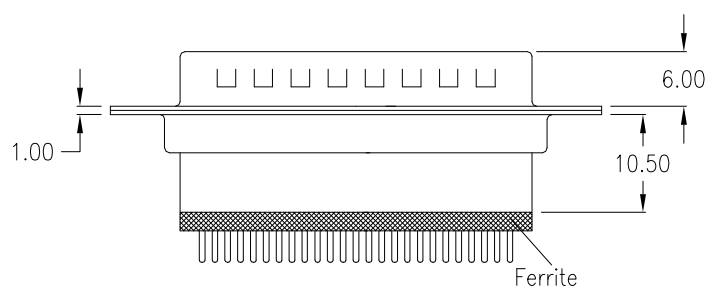
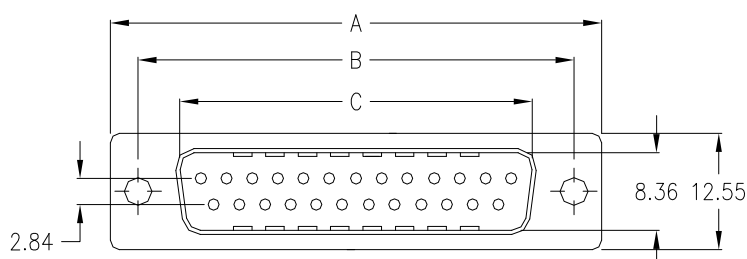
37 pin

SD Series - D-Sub with Ferrite Filter

B111 raised soldertail type



male



Ordering Code

SDM - xxx - B111 - 95 / F XXX

No. of contacts

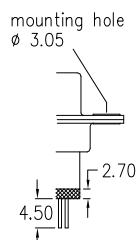
Option

Plating: **-95** = tin(*leadfree*)/gold

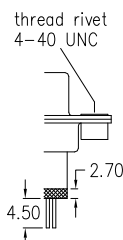
No. of contacts	Dimension		
	A	B	C
009	<u>30.81</u> 1.213	<u>24.99</u> .984	<u>16.92</u> .666
015	<u>39.14</u> 1.541	<u>33.32</u> 1.312	<u>25.25</u> .994
025	<u>53.04</u> 2.088	<u>47.04</u> 1.852	<u>38.96</u> 1.534
037	<u>69.32</u> 2.729	<u>63.50</u> 2.500	<u>55.42</u> 2.182

General Specification page 72

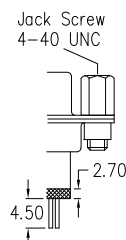
Options



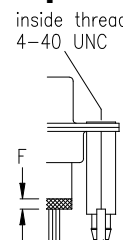
T0



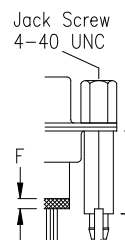
T



TJ



BR

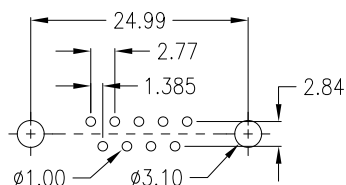


BR J

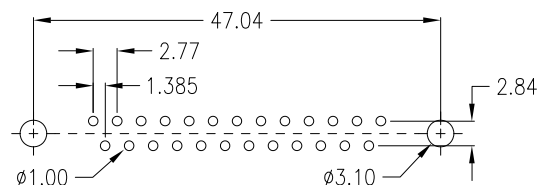
D	E	F	Option
3.00	12,70	1.20	3
3.20	14,50	2.70	4

PCB Layout „male“

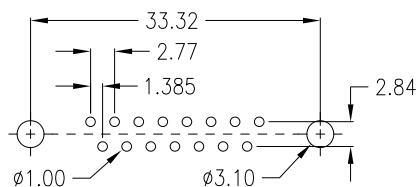
9 pin



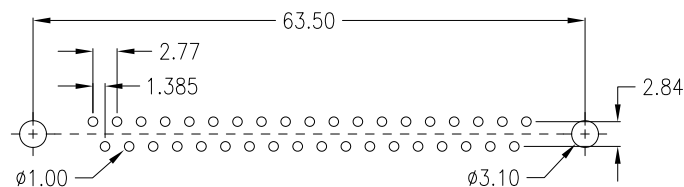
25 pin



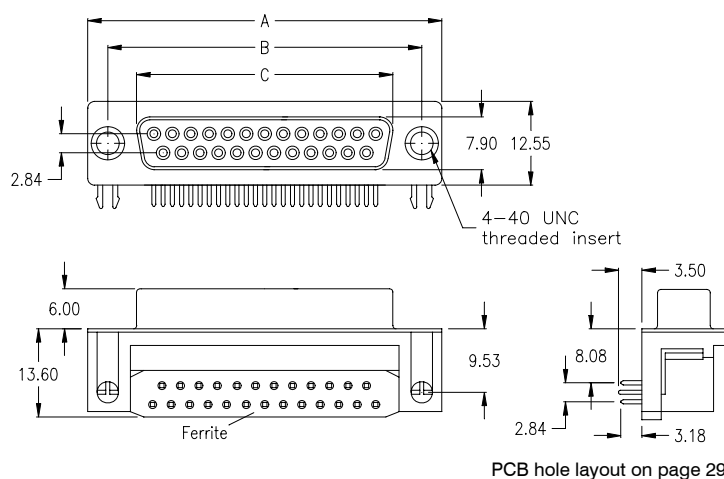
15 pin



37 pin



female



No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.33 .643
015	39.14 1.541	33.32 1.312	24.66 .971
025	53.04 2.088	47.04 1.852	38.38 1.511
037	69.32 2.729	63.50 2.500	54.84 2.159

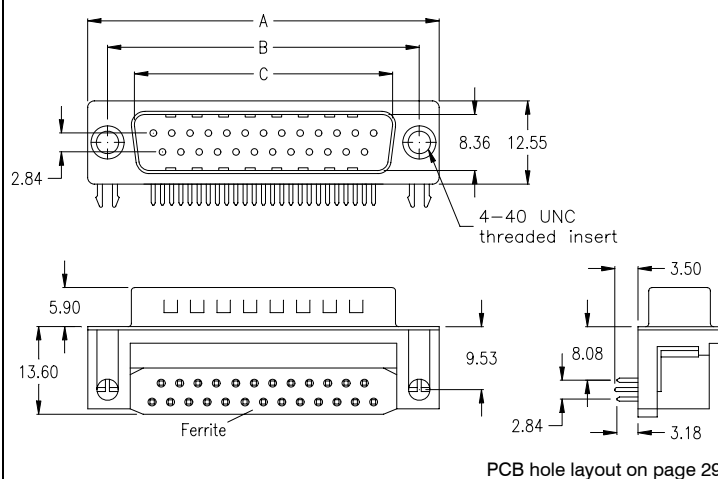
Ordering Code

SFF - xxx - N900 - 95 / XX

No. of contacts

Option

male



No. of contacts	Dimension		
	A	B	C
009	30.81 1.213	24.99 .984	16.92 .666
015	39.14 1.541	33.32 1.312	25.25 .994
025	53.04 2.088	47.04 1.852	38.96 1.534
037	69.32 2.729	63.50 2.500	55.42 2.182

Ordering Code

SFM - xxx - N900 - 95 / XX

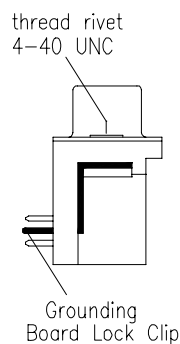
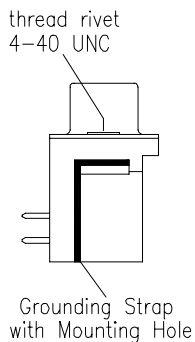
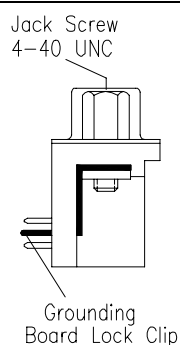
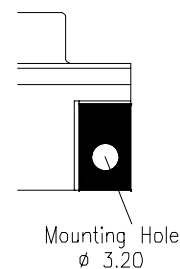
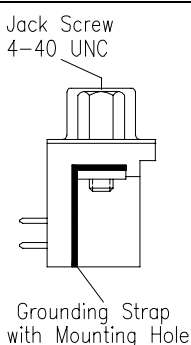
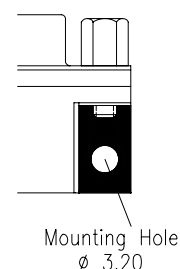
No. of contacts

Option

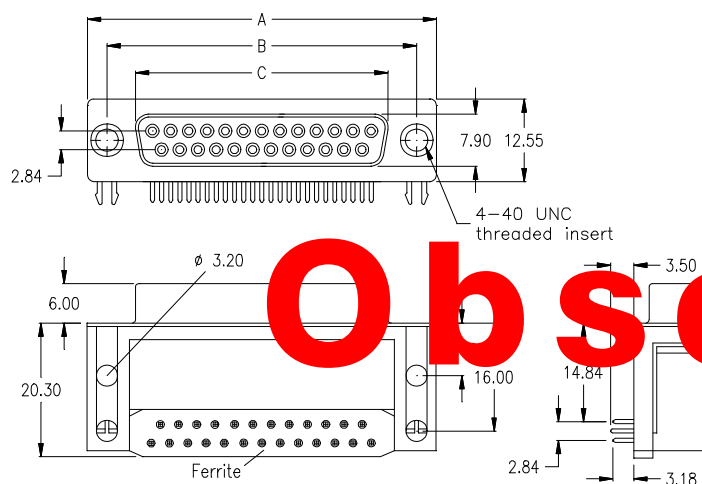
Plating: -95 = tin(leadfree)/gold

General Specification page 72

Options

**N****H****NJ****HJ**

female



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81	24.99	16.33
	1.213	.984	.643
015	39.14	33.32	24.66
	1.541	1.312	.971
025	53.04	47.04	38.38
	2.088	1.852	1.511
037	69.32	63.50	54.84
	2.729	2.500	2.159

Ordering Code

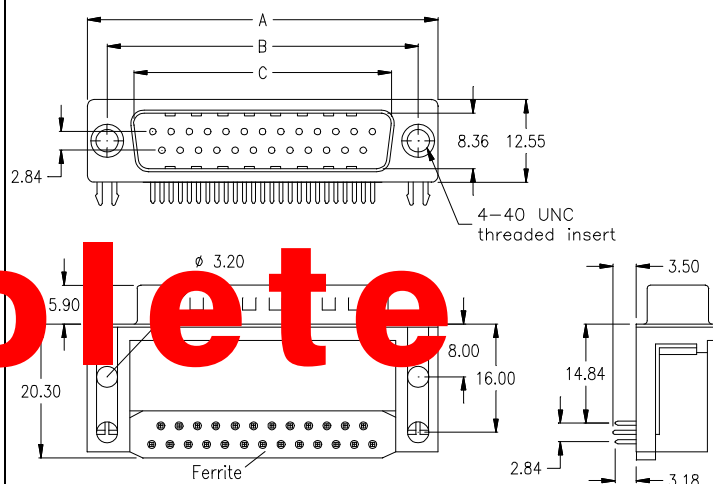
SFF - xxx - L900 - 95 / XX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

male



PCB hole layout on page 29

No. of contacts	Dimension		
	A	B	C
009	30.81	24.99	16.92
	1.213	.984	.666
015	39.14	33.32	25.25
	1.541	1.312	.994
025	53.04	47.04	38.96
	2.088	1.852	1.534
037	69.32	63.50	55.42
	2.729	2.500	2.182

Ordering Code

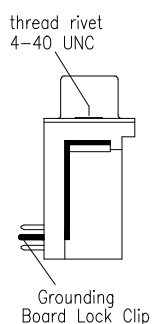
SFM - xxx - L900 - 95 / XX

No. of contacts

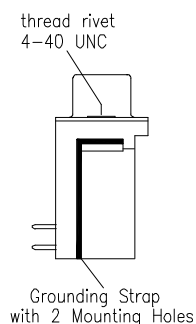
Option

General Specification page 72

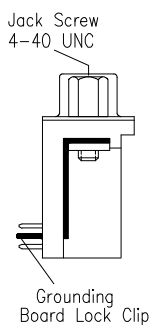
Options



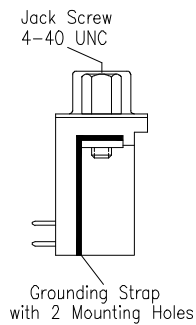
P



L

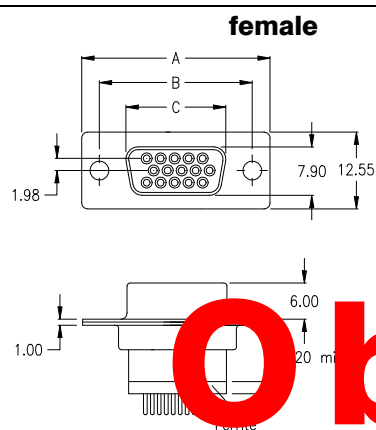


PJ



LJ

Mounting Holes
ø 3.20Mounting Holes
ø 3.20



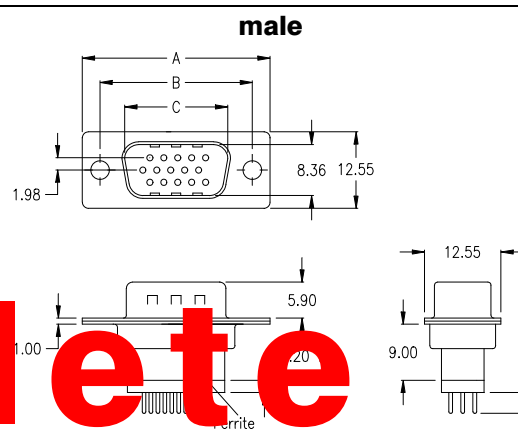
No. of contacts	Dimension		
	A	B	C
015	30.81	24.99	16.33
	1.213	.984	.643
026	39.14	33.32	24.66
	1.541	1.312	.971
044	53.04	47.04	38.38
	2.088	1.852	1.511
062	69.32	63.50	54.84
	2.729	2.500	2.159

Ordering Code
SHF - xxx - B 111 - **95** / F XX

No. of contacts

Option

Plating: **-95** = tin(leadfree)/gold **-55** = gold all over



No. of contacts	Dimension		
	A	B	C
015	30.81	24.99	16.92
	1.213	.984	.666

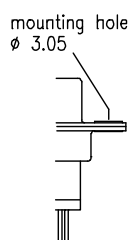
Ordering Code
SHM - 015 - B 111 - **55** / F XX

No. of contacts

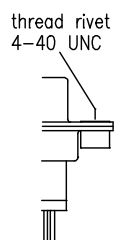
Option

General Specification page 72

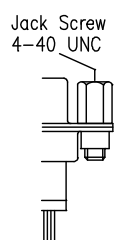
Options



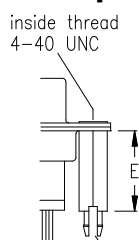
T0



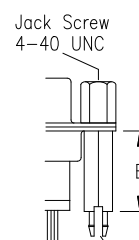
T



TJ



BR



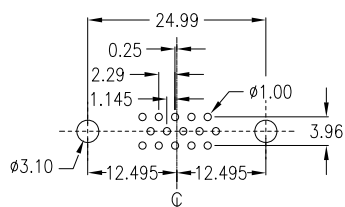
BR J

Board Lock

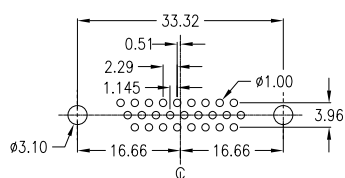
Board Lock

E	F	Option
12,70	4.60	3
14,50	5.20	4

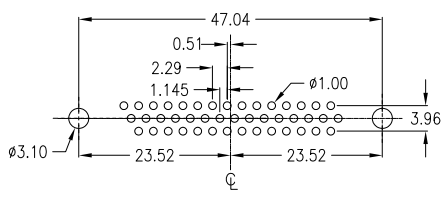
PCB Layout „female“



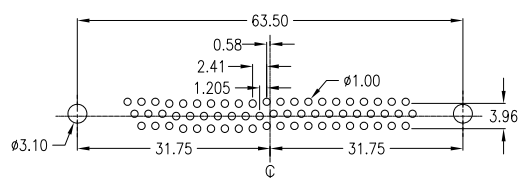
15 pin



26 pin

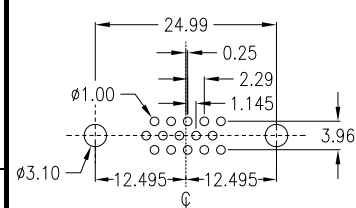


44 pin



62 pin

PCB Layout „male“

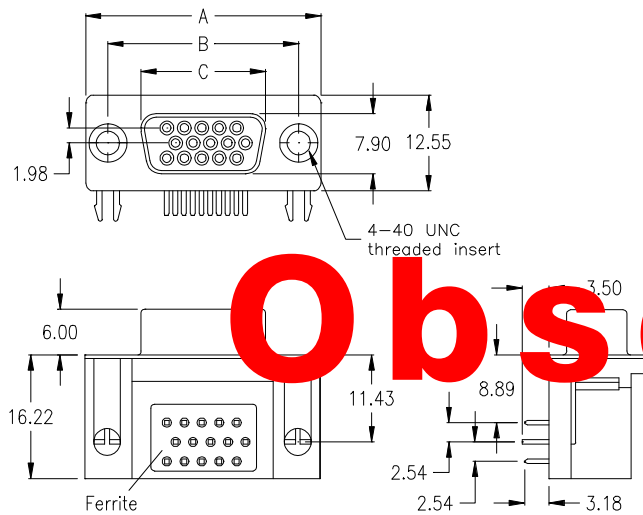


15 pin

SH Series - High Density D-Sub 90° F900 with Ferrite Filter



female



PCB hole layout on page 38

No. of contacts	Dimension		
	A	B	C
015	30.81 1.213	24.99 .984	16.33 .643
026	39.14 1.541	33.32 1.312	24.66 .971
044	53.04 2.088	47.04 1.852	38.38 1.511
062	69.32 2.729	63.50 2.500	54.84 2.159

Ordering Code

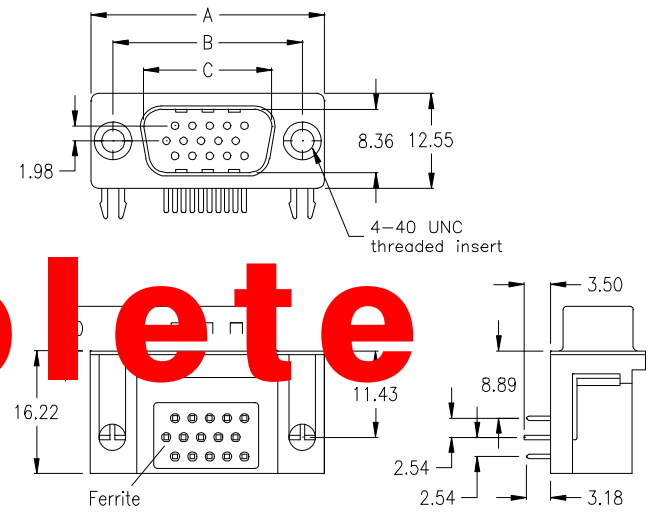
SHF - xxx - F 900 - 95 / F XX

No. of contacts

Option

Plating: -95 = tin(leadfree)/gold

male



PCB hole layout on page 38

No. of contacts	Dimension		
	A	B	C
015	30.81 1.213	24.99 .984	16.92 .666
026	39.14 1.541	33.32 1.312	25.25 .994
044	53.04 2.088	47.04 1.852	38.96 1.534
062	69.32 2.729	63.50 2.500	55.42 2.182

Ordering Code

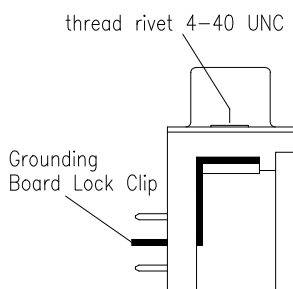
SHM - xxx - F 900 - 95 / F XX

No. of contacts

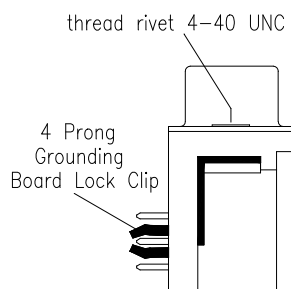
Option

General Specification page 72

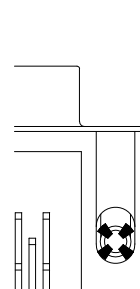
Options



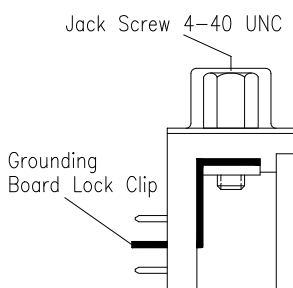
N



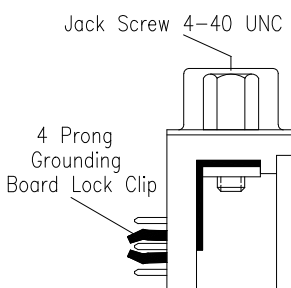
C4



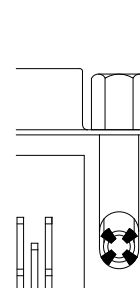
H



NJ



C4J



HJ

Multi Port

D-Sub



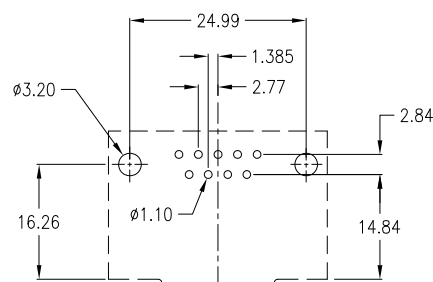
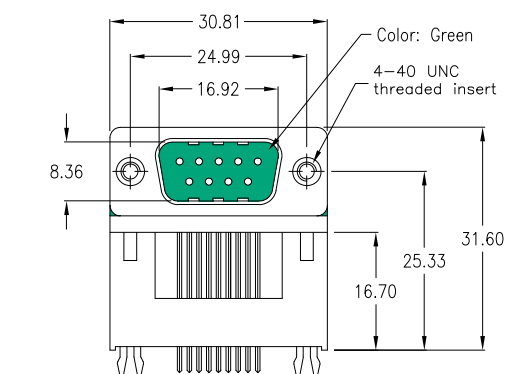
Multi Port D-Sub Connectors are available with a wide combination of different D-Sub types, standard and high density, with and without ferrite filter.

In addition, Triple Port D-Sub's are also available which meet the PC 99 Specification.

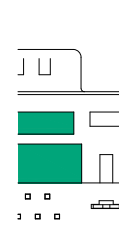
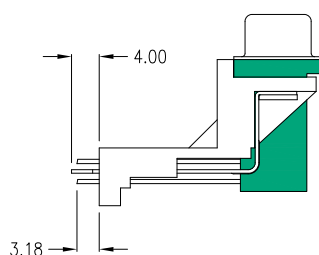
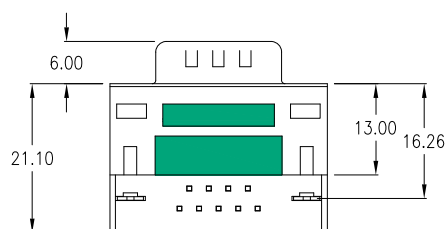
These Multi Port D-Sub's can be used on motherboards, as well as for any other electronic design purposes.

Please contact E-tec for any other Multi Port D-Sub Connector styles not shown in the following pages and/or for any other PCB layout styles.

Certain alternative styles can also be viewed on www.e-tec.com

9-pin male raised

PCB hole layout



Style "-MN"



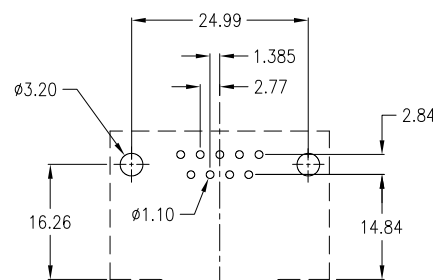
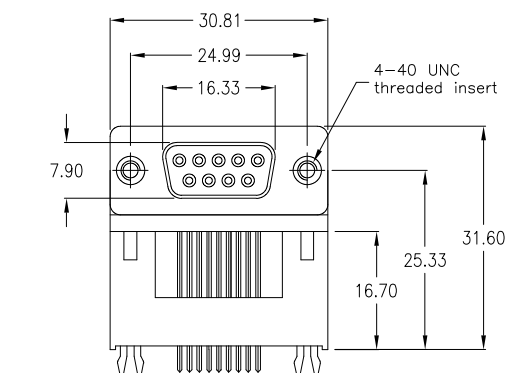
Style "-MNJ"

with 2 grounding clips;
w/o jack screws
Standard
(as above drawing)

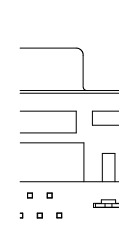
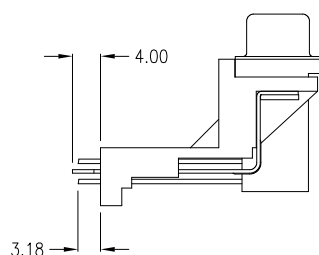
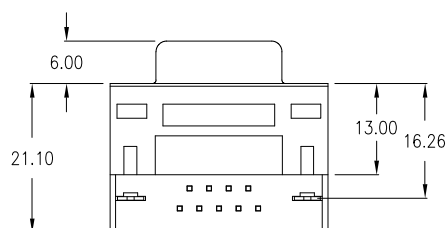
SDD-0900-2-95-MN

with 2 grounding clips;
2 jack screws 4-40 UNC
mounted
Option

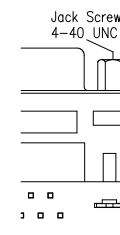
SDD-0900-2-95-MNJ

9-pin female raised

PCB hole layout



Style "-FN"



Style "-FNJ"

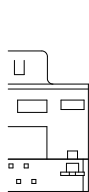
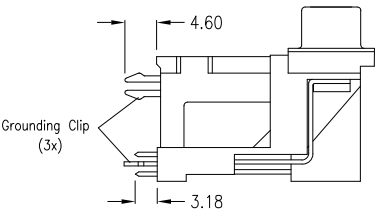
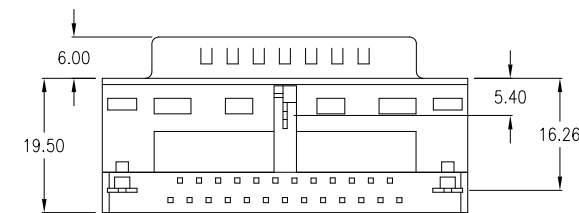
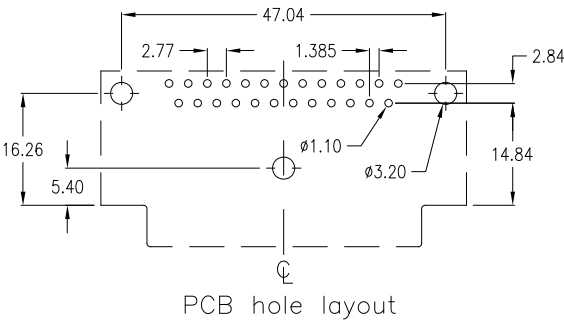
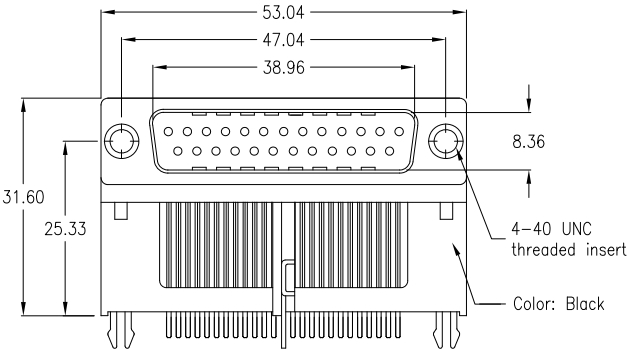
with 2 grounding clips;
w/o jack screws
Standard
(as above drawing)

SDD-0900-2-95-FN

with 2 grounding clips;
2 jack screws 4-40 UNC
mounted
Option

SDD-0900-2-95-FNJ

25-pin male raised



Style "-MN"



Style "-MNJ"

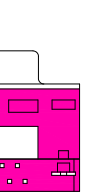
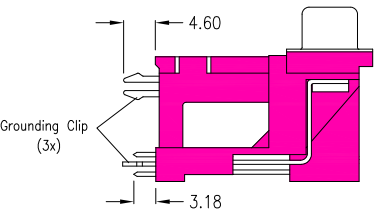
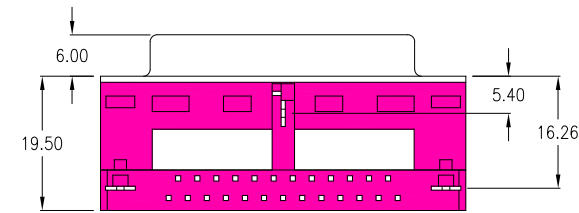
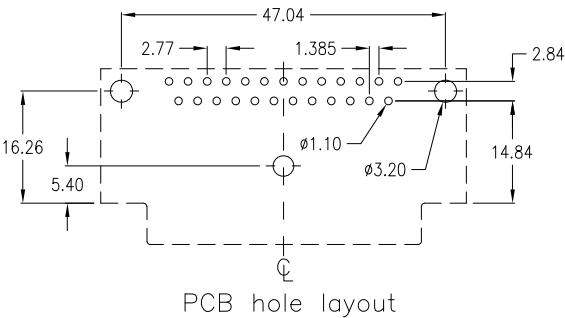
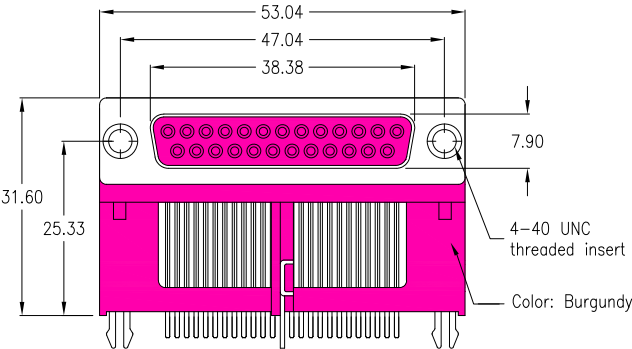
with 3 grounding clips;
w/o jack screws
Standard
(as above drawing)

SDD-2500-2-95-MN

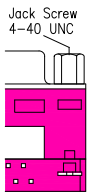
with 3 grounding clips;
2 jack screws 4-40 UNC
mounted
Option

SDD-2500-2-95-MNJ

25-pin female raised



Style "-FN"



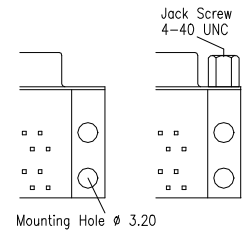
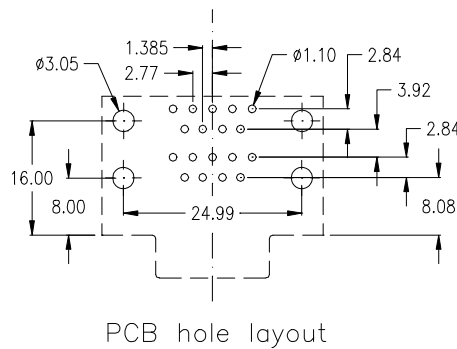
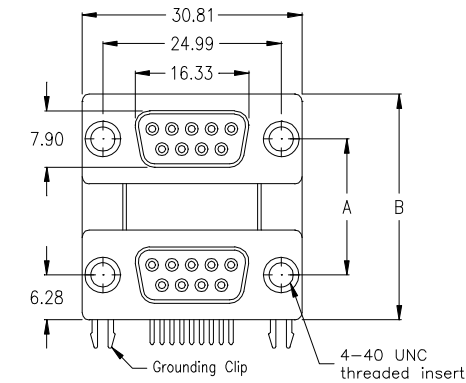
Style "-FNJ"

with 3 grounding clips;
w/o jack screws
Standard
(as above drawing)

SDD-2500-2-95-FN

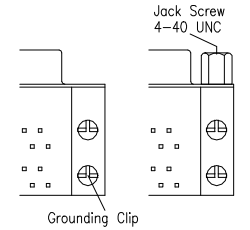
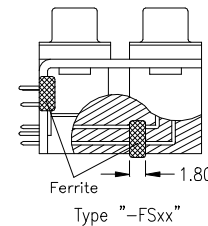
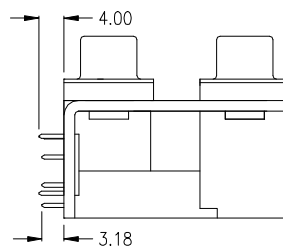
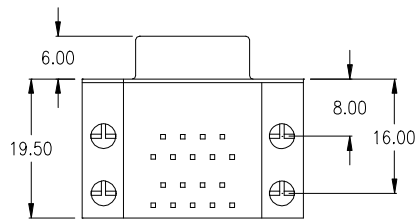
with 3 grounding clips;
2 jack screws 4-40 UNC
mounted
Option

SDD-2500-2-95-FNJ

9-pin female / 9-pin female

Style "-F"

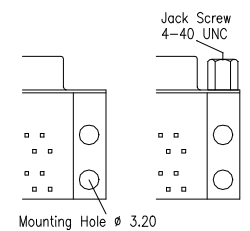
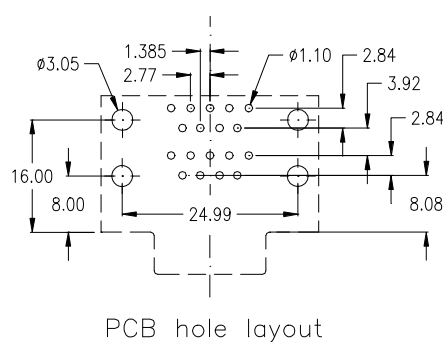
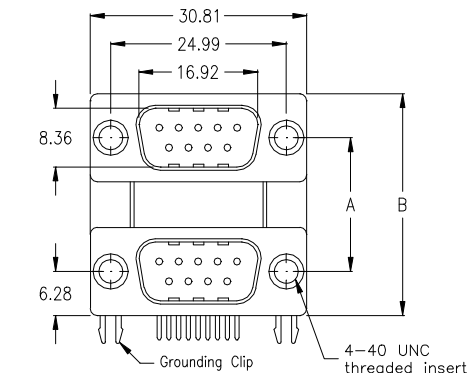
Style "-FJ"



Style "-FN"

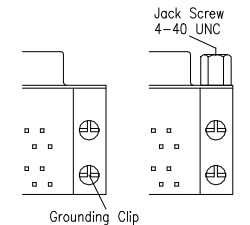
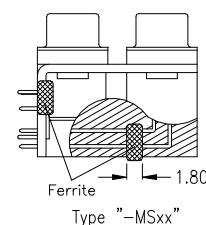
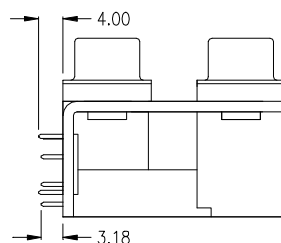
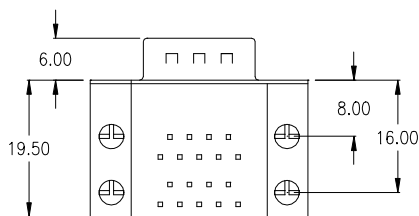
Style "-FNJ"

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-0909-1-95-F	SDD-0909-1-95-FJ	SDD-0909-1-95-FN	SDD-0909-1-95-FNJ	„A“ = 22.86 „B“ = 35.41
SDD-0909-2-95-F	SDD-0909-2-95-FJ	SDD-0909-2-95-FN	SDD-0909-2-95-FNJ	„A“ = 19.05 „B“ = 31.60
SDD-0909-3-95-F	SDD-0909-3-95-FJ	SDD-0909-3-95-FN	SDD-0909-3-95-FNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FS	if with Ferrite Filter: -FSJ	if with Ferrite Filter: -FSN	if with Ferrite Filter: -FSNJ	

9-pin male / 9-pin male

Style "-M"

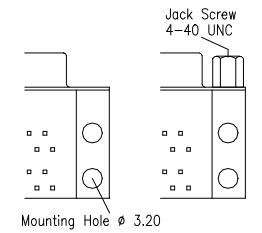
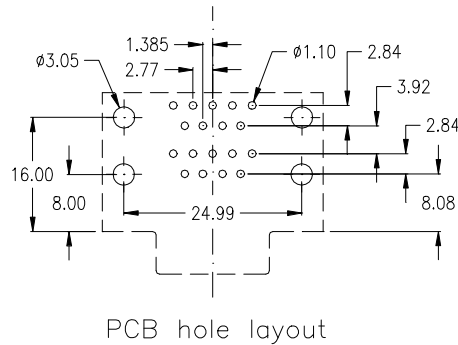
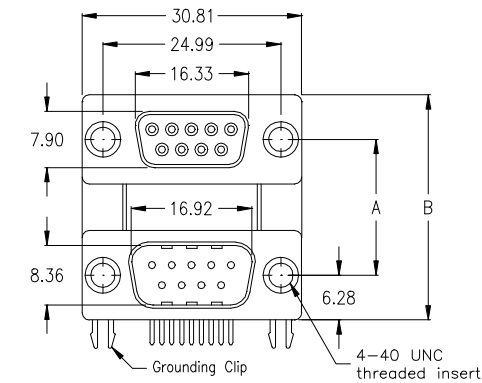
Style "-MJ"



Style "-MN"

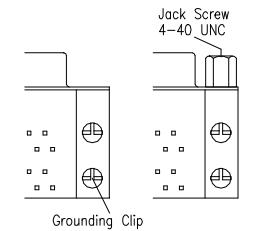
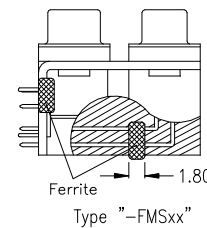
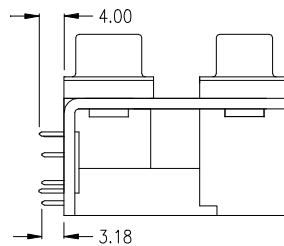
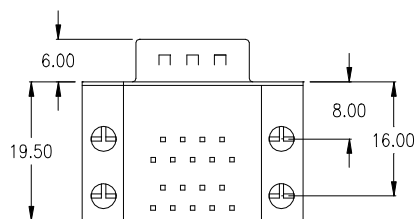
Style "-MNJ"

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-0909-1-95-M	SDD-0909-1-95-MJ	SDD-0909-1-95-MN	SDD-0909-1-95-MNJ	„A“ = 22.86 „B“ = 35.41
SDD-0909-2-95-M	SDD-0909-2-95-MJ	SDD-0909-2-95-MN	SDD-0909-2-95-MNJ	„A“ = 19.05 „B“ = 31.60
SDD-0909-3-95-M	SDD-0909-3-95-MJ	SDD-0909-3-95-MN	SDD-0909-3-95-MNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MS	if with Ferrite Filter: -MSJ	if with Ferrite Filter: -MSN	if with Ferrite Filter: -MSNJ	

9-pin female / 9-pin male

Style "-FM"

Style "-FMJ"



Style "-FMN"

Style "-FMNJ"

without grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mounted

Distance Dimensions

SDD-0909-1-95-FM

SDD-0909-1-95-FMJ

SDD-0909-1-95-FMN

SDD-0909-1-95-FMNJ

„A“ = 22.86 „B“ = 35.41

SDD-0909-2-95-FM

SDD-0909-2-95-FMJ

SDD-0909-2-95-FMN

SDD-0909-2-95-FMNJ

„A“ = 19.05 „B“ = 31.60

SDD-0909-3-95-FM

SDD-0909-3-95-FMJ

SDD-0909-3-95-FMN

SDD-0909-3-95-FMNJ

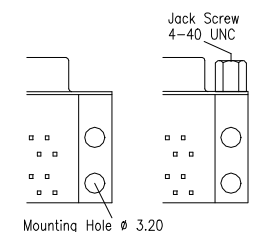
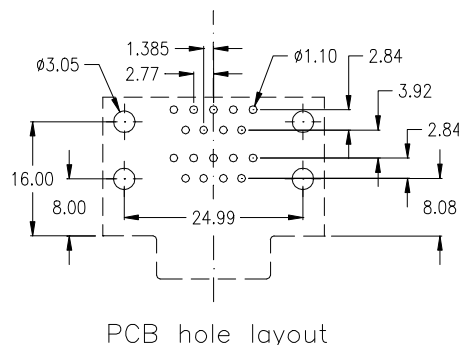
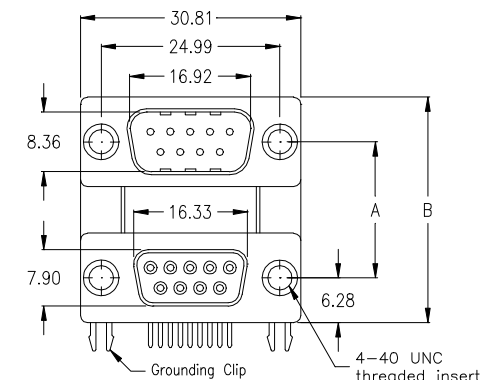
„A“ = 15.87 „B“ = 28.42

if with Ferrite Filter: -FMS

if with Ferrite Filter: -FMSJ

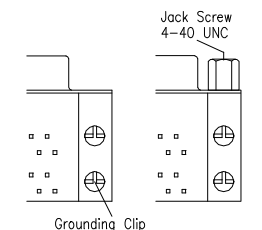
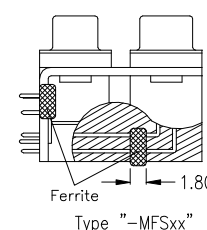
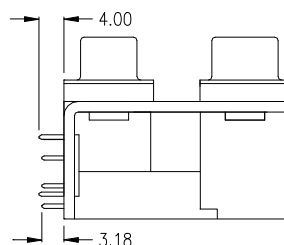
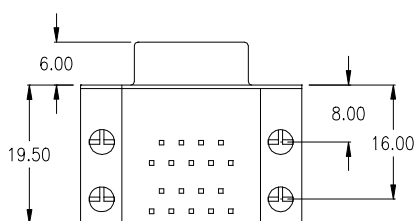
if with Ferrite Filter: -FMSN

if with Ferrite Filter: -FMSNJ

9-pin male / 9-pin female

Style "-MF"

Style "-MFJ"



Style "-MFN"

Style "-MFNJ"

without grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mounted

Distance Dimensions

SDD-0909-1-95-MF

SDD-0909-1-95-MFJ

SDD-0909-1-95-MFN

SDD-0909-1-95-MFNJ

„A“ = 22.86 „B“ = 35.41

SDD-0909-2-95-MF

SDD-0909-2-95-MFJ

SDD-0909-2-95-MFN

SDD-0909-2-95-MFNJ

„A“ = 19.05 „B“ = 31.60

SDD-0909-3-95-MF

SDD-0909-3-95-MFJ

SDD-0909-3-95-MFN

SDD-0909-3-95-MFNJ

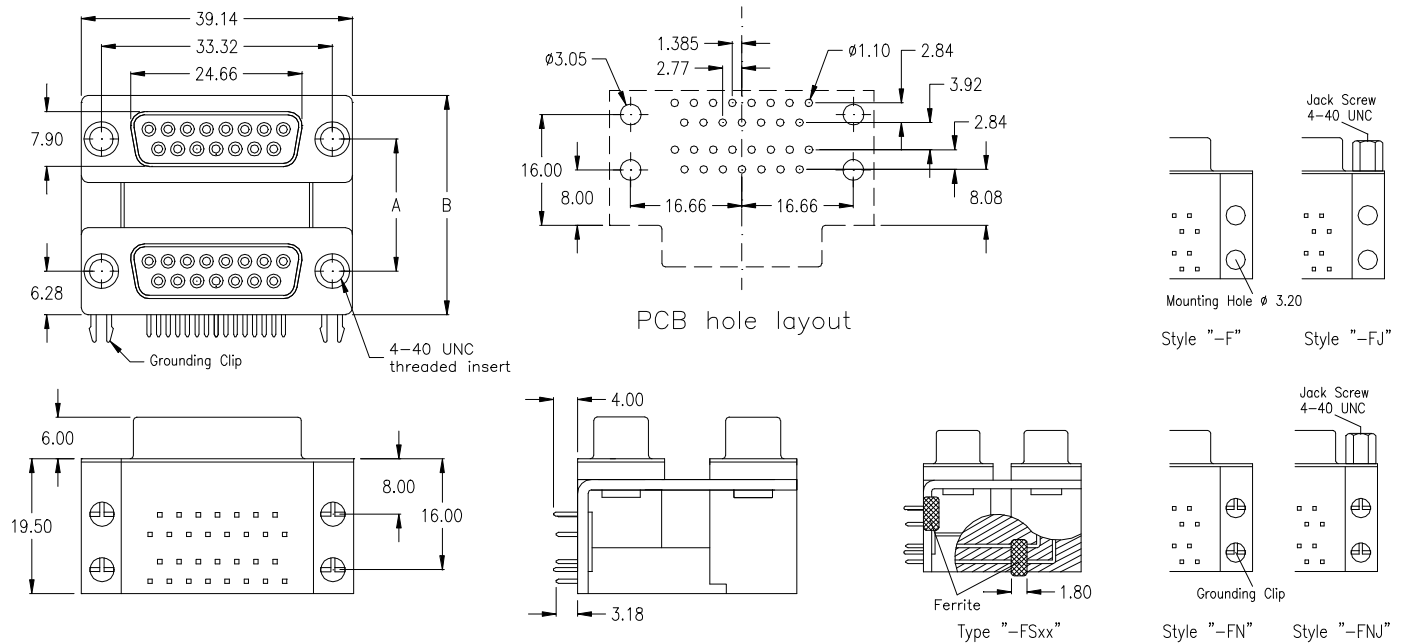
„A“ = 15.87 „B“ = 28.42

if with Ferrite Filter: -MFS

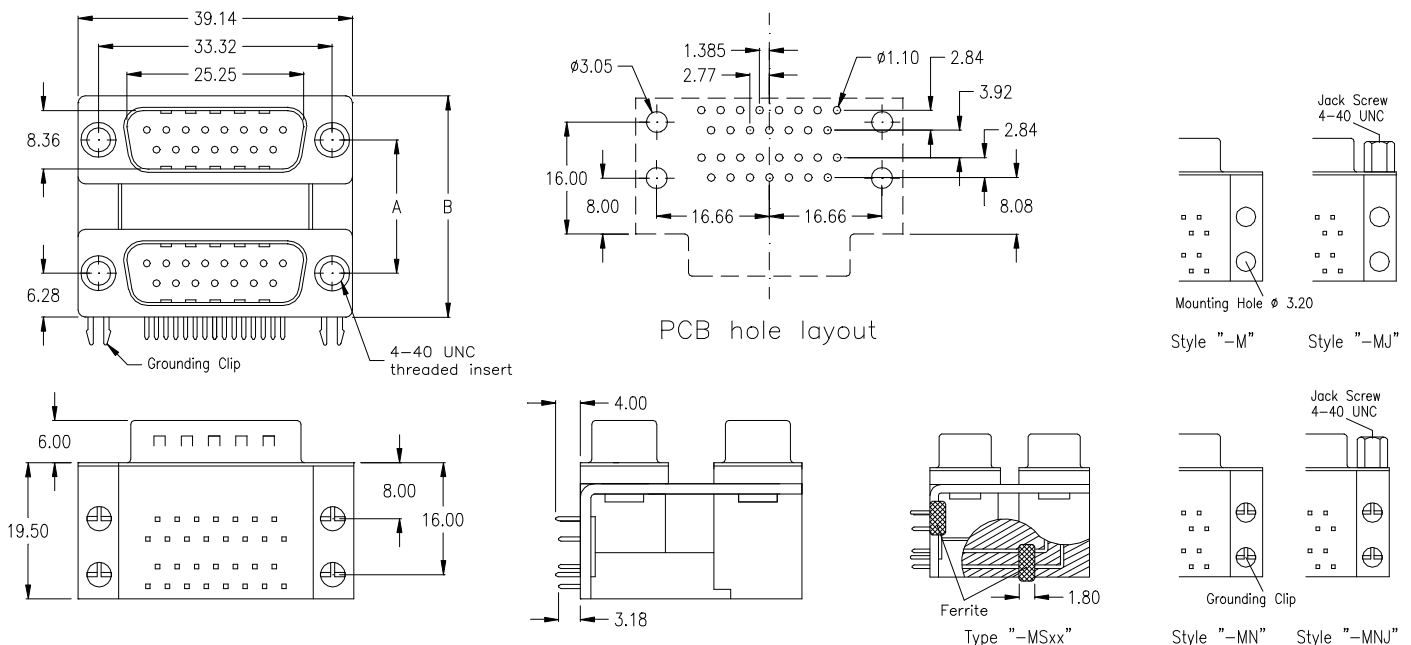
if with Ferrite Filter: -MFSJ

if with Ferrite Filter: -MFSN

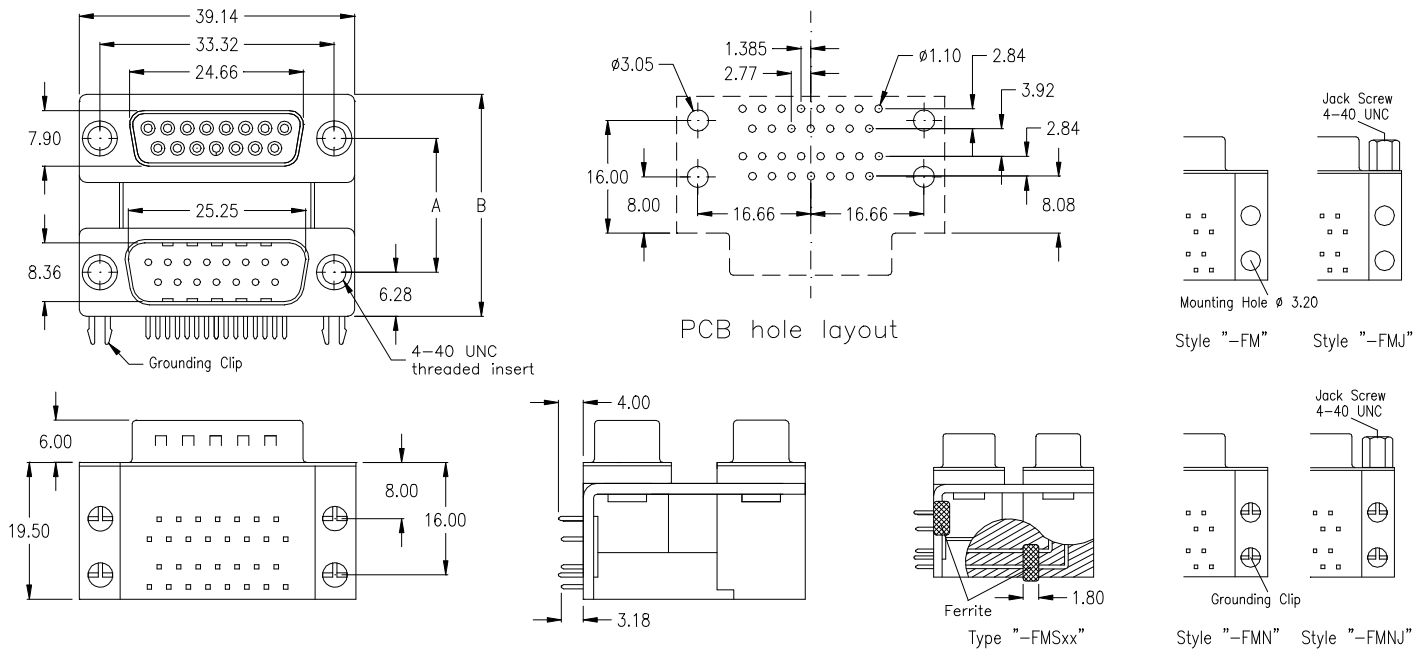
if with Ferrite Filter: -MFSNJ

15-pin female / 15-pin female

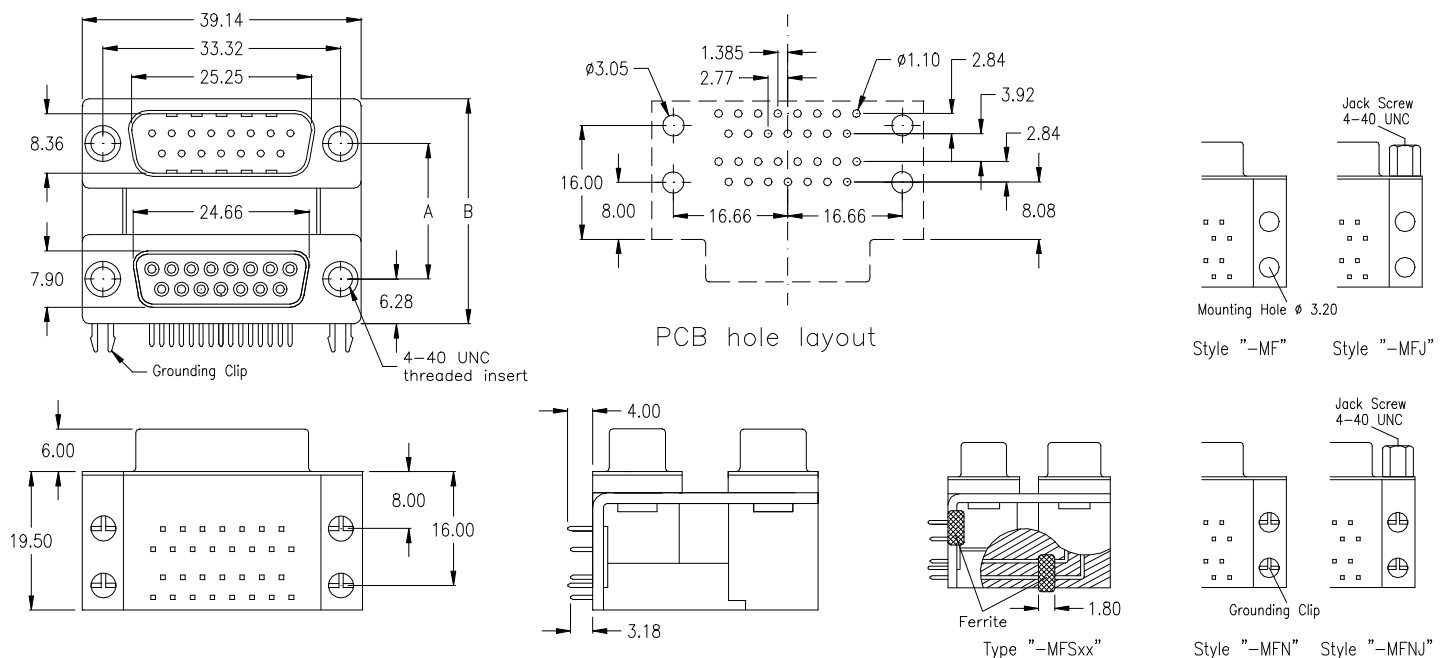
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-1515-1-95-F	SDD-1515-1-95-FJ	SDD-1515-1-95-FN	SDD-1515-1-95-FNJ	„A“ = 22.86 „B“ = 35.41
SDD-1515-2-95-F	SDD-1515-2-95-FJ	SDD-1515-2-95-FN	SDD-1515-2-95-FNJ	„A“ = 19.05 „B“ = 31.60
SDD-1515-3-95-F	SDD-1515-3-95-FJ	SDD-1515-3-95-FN	SDD-1515-3-95-FNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FS	if with Ferrite Filter: -FSJ	if with Ferrite Filter: -FSN	if with Ferrite Filter: -FSNJ	

15-pin male / 15-pin male

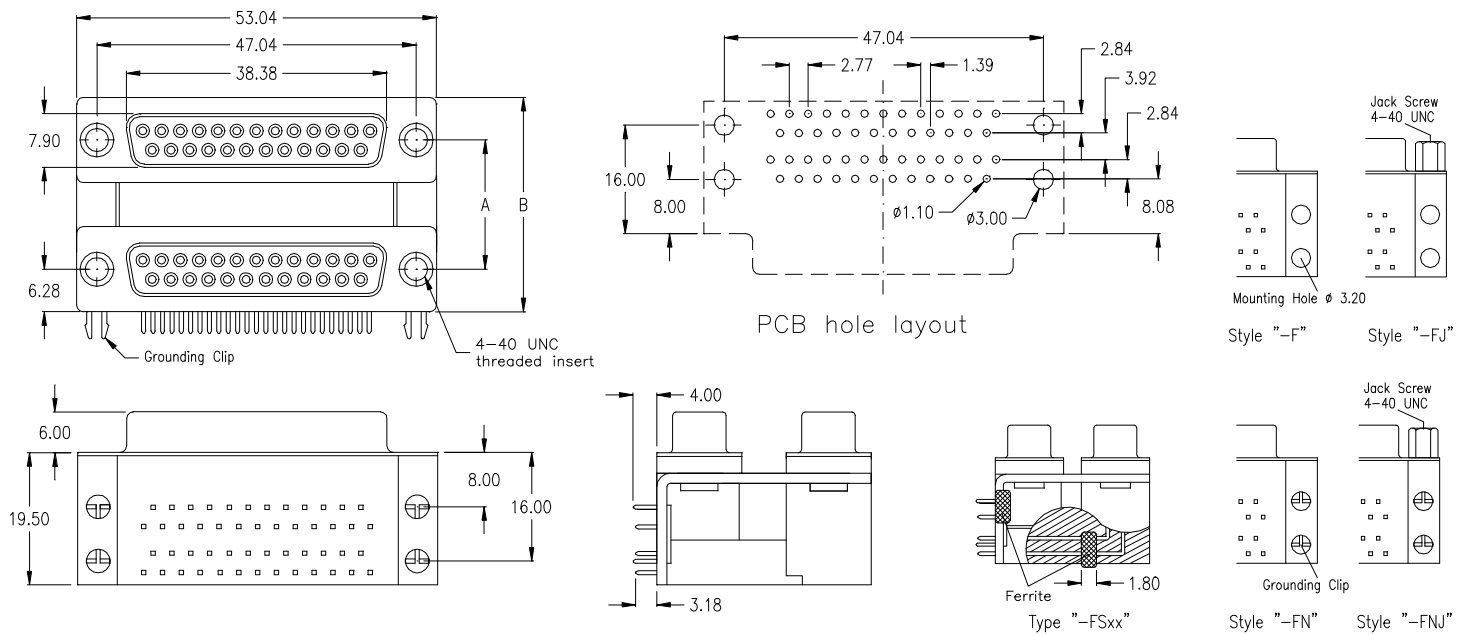
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-1515-1-95-M	SDD-1515-1-95-MJ	SDD-1515-1-95-MN	SDD-1515-1-95-MNJ	„A“ = 22.86 „B“ = 35.41
SDD-1515-2-95-M	SDD-1515-2-95-MJ	SDD-1515-2-95-MN	SDD-1515-2-95-MNJ	„A“ = 19.05 „B“ = 31.60
SDD-1515-3-95-M	SDD-1515-3-95-MJ	SDD-1515-3-95-MN	SDD-1515-3-95-MNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MS	if with Ferrite Filter: -MSJ	if with Ferrite Filter: -MSN	if with Ferrite Filter: -MSNJ	

15-pin female / 15-pin male

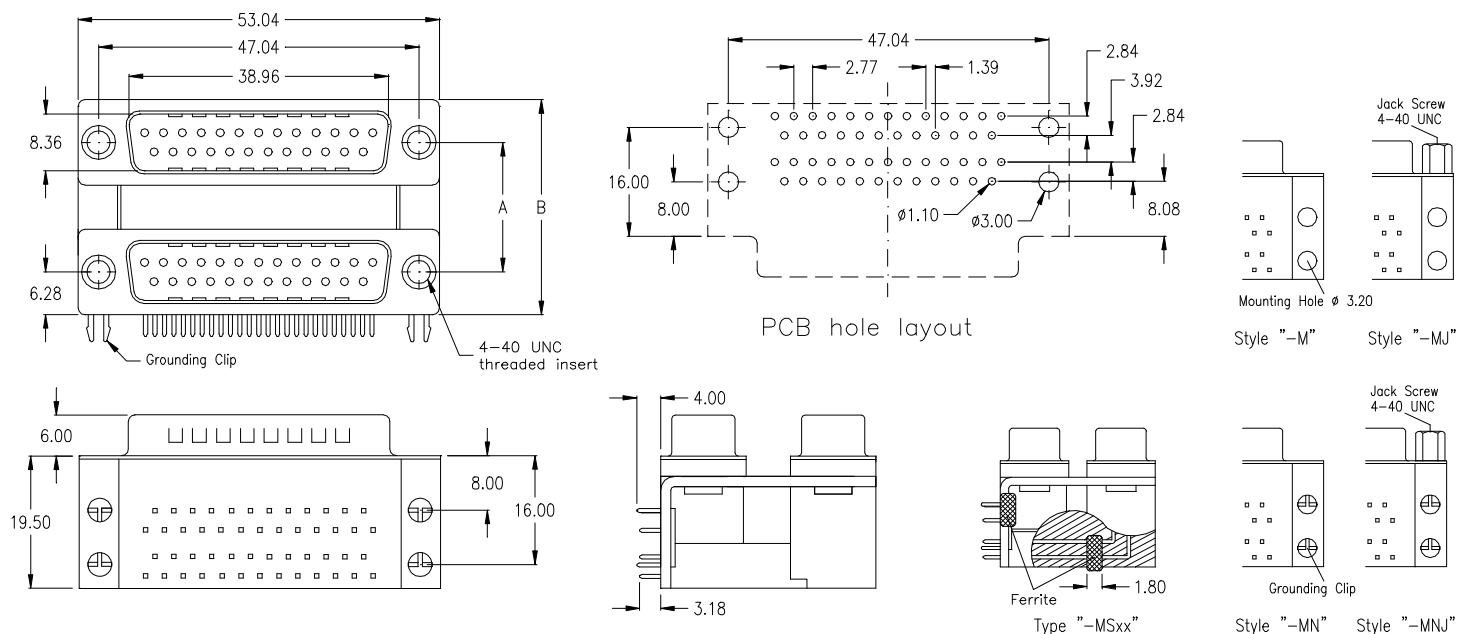
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-1515-1-95-FM	SDD-1515-1-95-FMJ	SDD-1515-1-95-FMN	SDD-1515-1-95-FMNJ	„A“ = 22.86 „B“ = 35.41
SDD-1515-2-95-FM	SDD-1515-2-95-FMJ	SDD-1515-2-95-FMN	SDD-1515-2-95-FMNJ	„A“ = 19.05 „B“ = 31.60
SDD-1515-3-95-FM	SDD-1515-3-95-FMJ	SDD-1515-3-95-FMN	SDD-1515-3-95-FMNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FMS	if with Ferrite Filter: -FMSJ	if with Ferrite Filter: -FMSN	if with Ferrite Filter: -FMSNJ	

15-pin male / 15-pin female

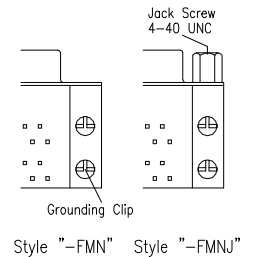
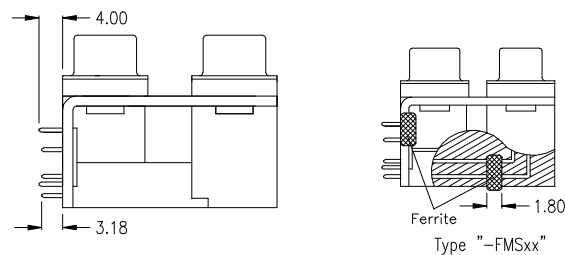
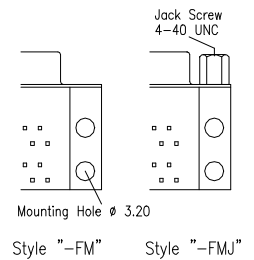
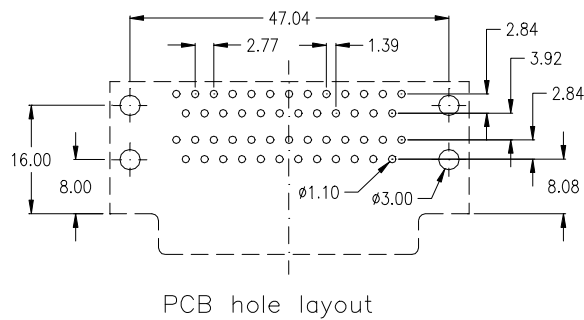
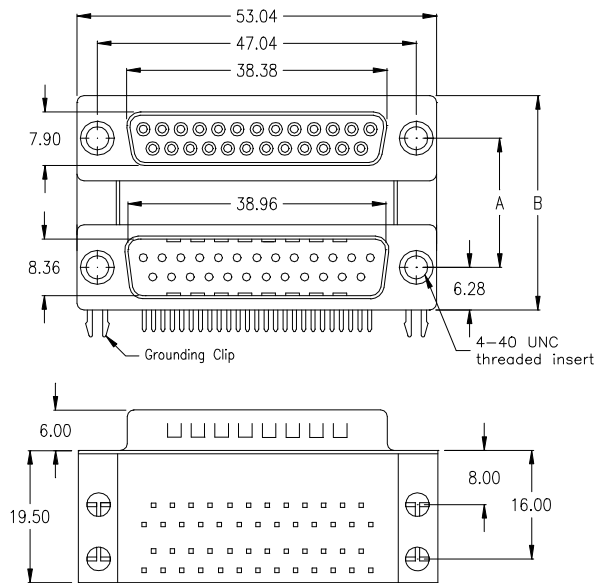
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-1515-1-95-MF	SDD-1515-1-95-MFJ	SDD-1515-1-95-MFN	SDD-1515-1-95-MFNJ	„A“ = 22.86 „B“ = 35.41
SDD-1515-2-95-MF	SDD-1515-2-95-MFJ	SDD-1515-2-95-MFN	SDD-1515-2-95-MFNJ	„A“ = 19.05 „B“ = 31.60
SDD-1515-3-95-MF	SDD-1515-3-95-MFJ	SDD-1515-3-95-MFN	SDD-1515-3-95-MFNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MFS	if with Ferrite Filter: -MFSJ	if with Ferrite Filter: -MFSN	if with Ferrite Filter: -MFSNJ	

25-pin female / 25-pin female

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-2525-1-95-F	SDD-2525-1-95-FJ	SDD-2525-1-95-FN	SDD-2525-1-95-FNJ	„A“ = 22.86 „B“ = 35.41
SDD-2525-2-95-F	SDD-2525-2-95-FJ	SDD-2525-2-95-FN	SDD-2525-2-95-FNJ	„A“ = 19.05 „B“ = 31.60
SDD-2525-3-95-F	SDD-2525-3-95-FJ	SDD-2525-3-95-FN	SDD-2525-3-95-FNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FS	if with Ferrite Filter: -FSJ	if with Ferrite Filter: -FSN	if with Ferrite Filter: -FSNJ	

25-pin male / 25-pin male

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-2525-1-95-M	SDD-2525-1-95-MJ	SDD-2525-1-95-MN	SDD-2525-1-95-MNJ	„A“ = 22.86 „B“ = 35.41
SDD-2525-2-95-M	SDD-2525-2-95-MJ	SDD-2525-2-95-MN	SDD-2525-2-95-MNJ	„A“ = 19.05 „B“ = 31.60
SDD-2525-3-95-M	SDD-2525-3-95-MJ	SDD-2525-3-95-MN	SDD-2525-3-95-MNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MS	if with Ferrite Filter: -MSJ	if with Ferrite Filter: -MSN	if with Ferrite Filter: -MSNJ	

25-pin female / 25-pin malewithout grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mounted

Distance Dimensions

SDD-2525-1-95-FM

SDD-2525-1-95-FMJ

SDD-2525-1-95-FMN

SDD-2525-1-95-FMNJ

„A“ = 22.86 „B“ = 35.41

SDD-2525-2-95-FM

SDD-2525-2-95-FMJ

SDD-2525-2-95-FMN

SDD-2525-2-95-FMNJ

„A“ = 19.05 „B“ = 31.60

SDD-2525-3-95-FM

SDD-2525-3-95-FMJ

SDD-2525-3-95-FMN

SDD-2525-3-95-FMNJ

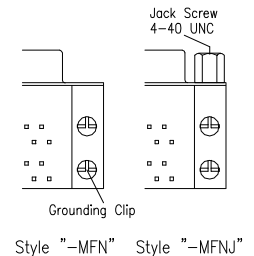
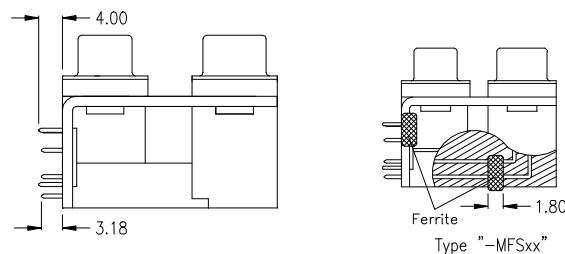
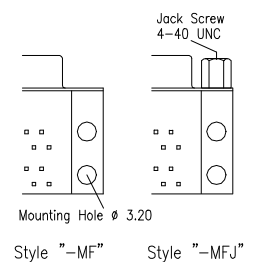
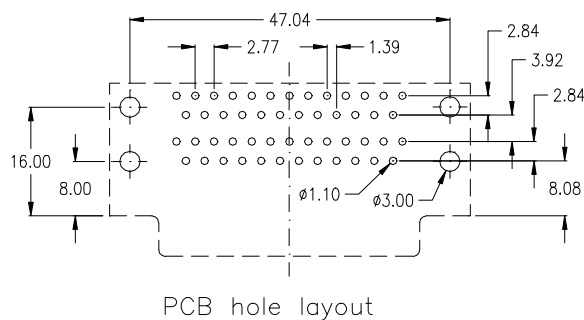
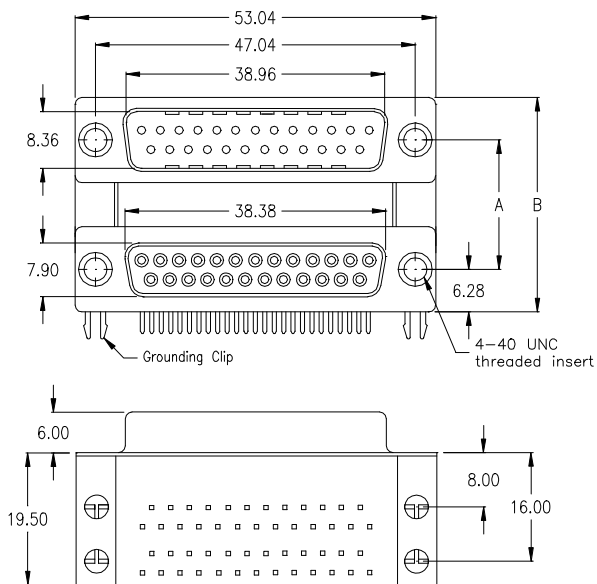
„A“ = 15.87 „B“ = 28.42

if with Ferrite Filter: -FMS

if with Ferrite Filter: -FMSJ

if with Ferrite Filter: -FMSN

if with Ferrite Filter: -FMSNJ

25-pin male / 25-pin femalewithout grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mounted

Distance Dimensions

SDD-2525-1-95-MF

SDD-2525-1-95-MFJ

SDD-2525-1-95-MFN

SDD-2525-1-95-MFNJ

„A“ = 22.86 „B“ = 35.41

SDD-2525-2-95-MF

SDD-2525-2-95-MFJ

SDD-2525-2-95-MFN

SDD-2525-2-95-MFNJ

„A“ = 19.05 „B“ = 31.60

SDD-2525-3-95-MF

SDD-2525-3-95-MFJ

SDD-2525-3-95-MFN

SDD-2525-3-95-MFNJ

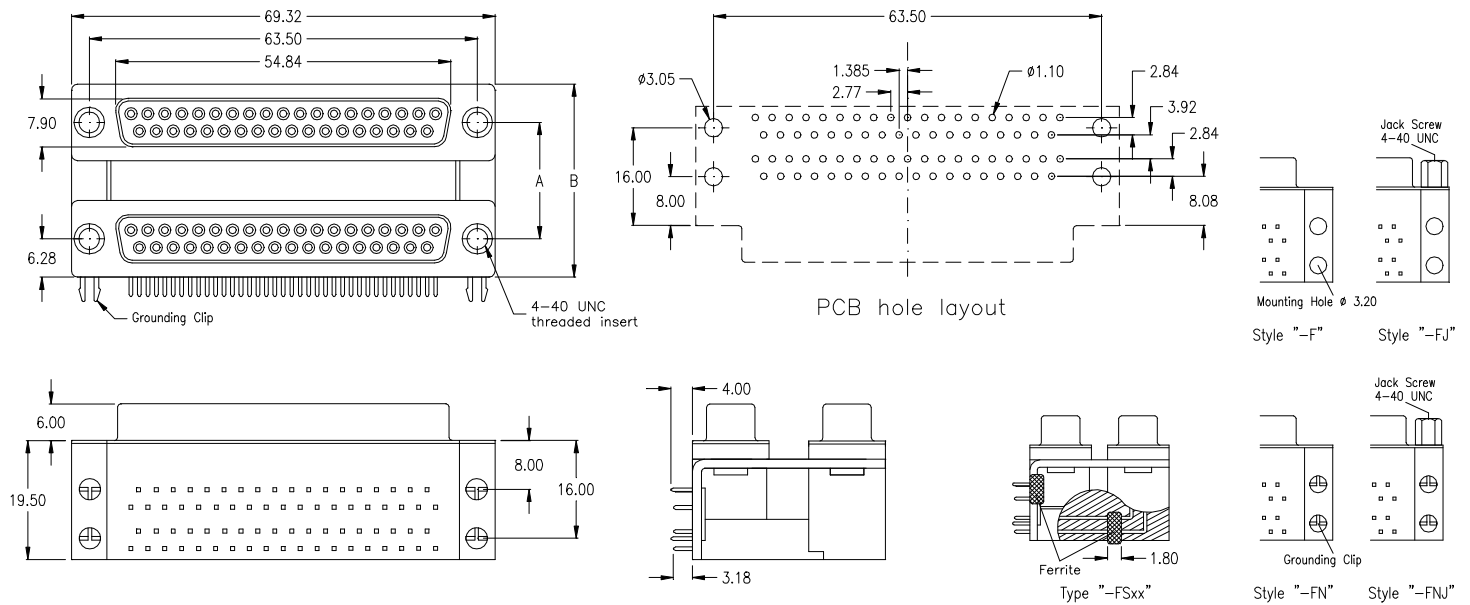
„A“ = 15.87 „B“ = 28.42

if with Ferrite Filter: -MFS

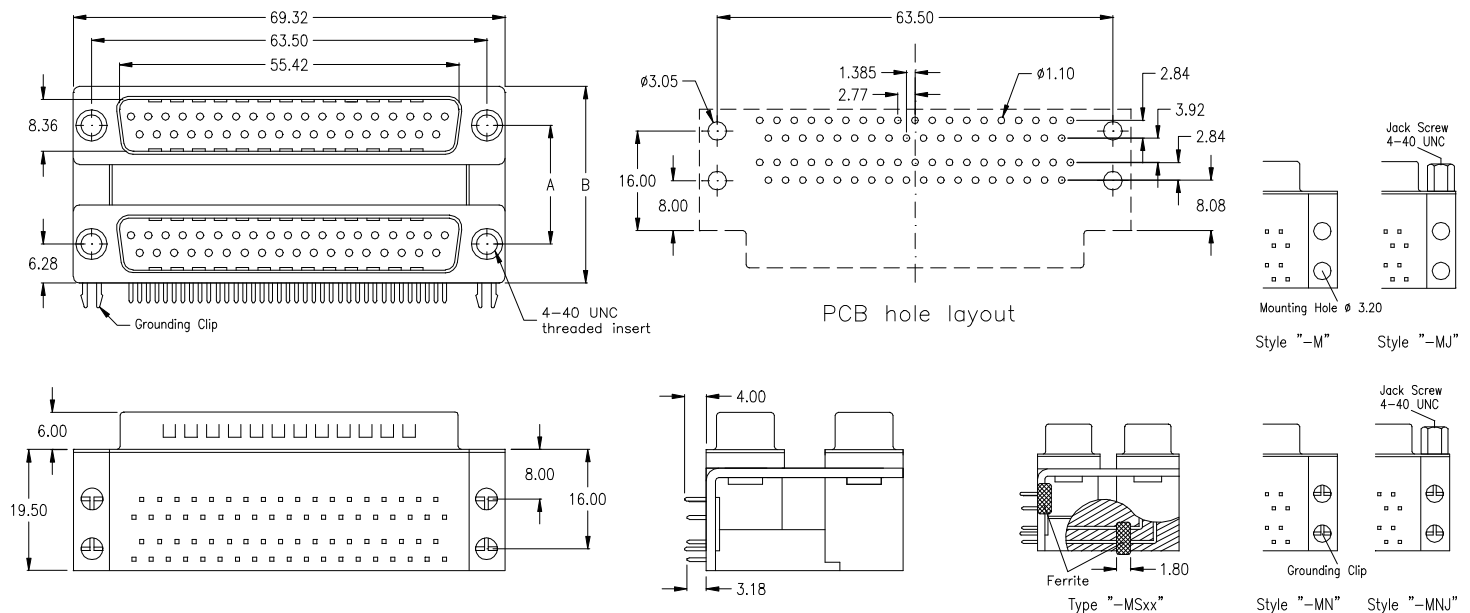
if with Ferrite Filter: -MFSJ

if with Ferrite Filter: -MFSN

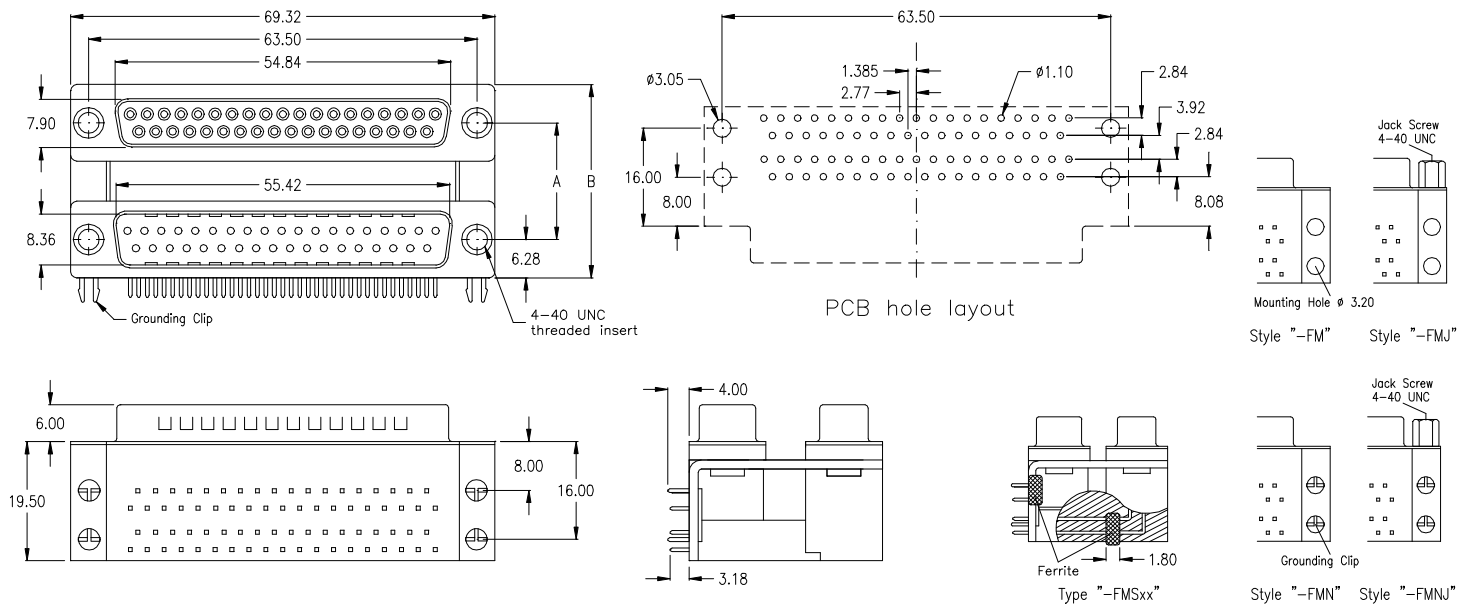
if with Ferrite Filter: -MFSNJ

37-pin female / 37-pin female

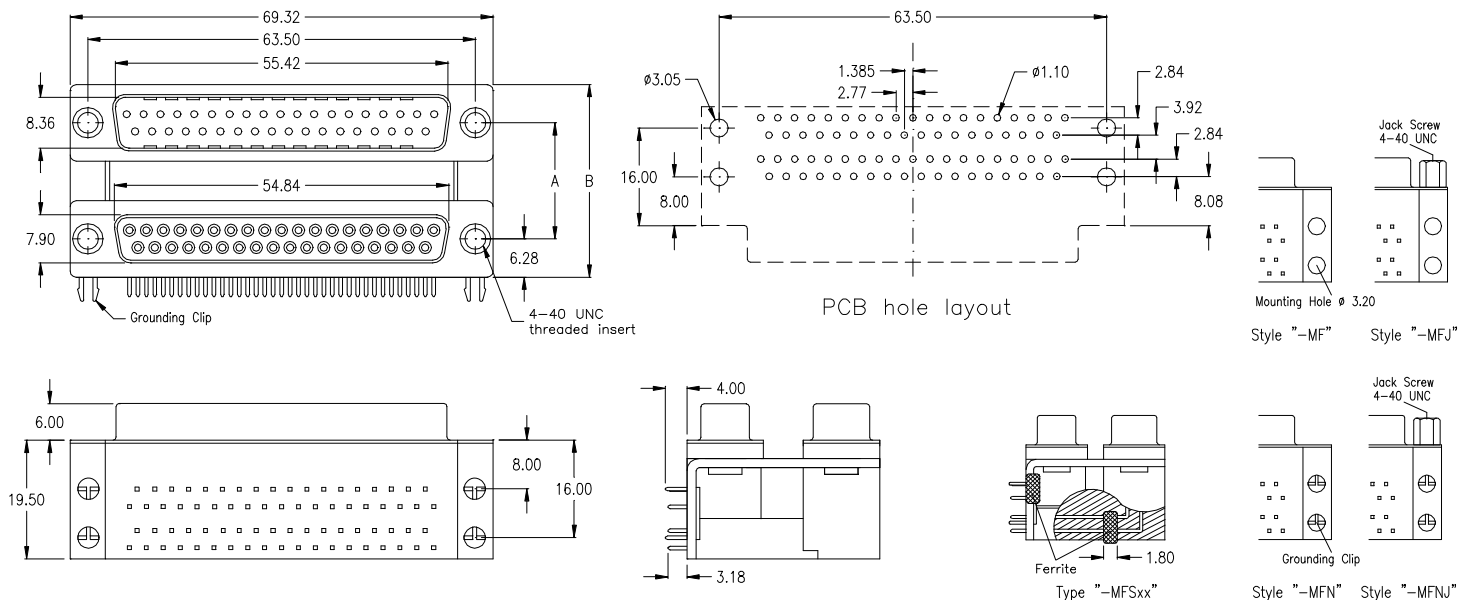
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-3737-1-95-F	SDD-3737-1-95-FJ	SDD-3737-1-95-FN	SDD-3737-1-95-FNJ	„A“ = 22.86 „B“ = 35.41
SDD-3737-2-95-F	SDD-3737-2-95-FJ	SDD-3737-2-95-FN	SDD-3737-2-95-FNJ	„A“ = 19.05 „B“ = 31.60
SDD-3737-3-95-F	SDD-3737-3-95-FJ	SDD-3737-3-95-FN	SDD-3737-3-95-FNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FS	if with Ferrite Filter: -FSJ	if with Ferrite Filter: -FSN	if with Ferrite Filter: -FSNJ	

37-pin male / 37-pin male

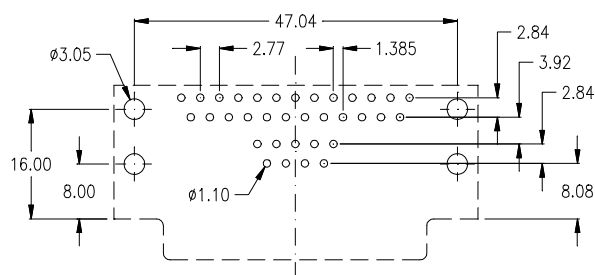
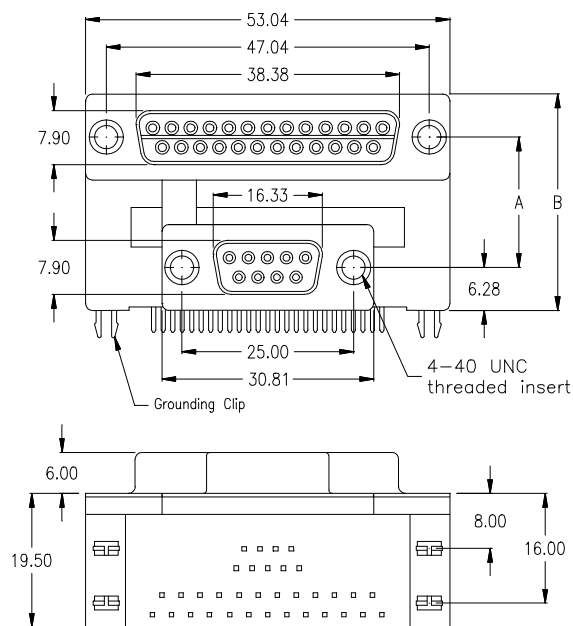
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-3737-1-95-M	SDD-3737-1-95-MJ	SDD-3737-1-95-MN	SDD-3737-1-95-MNJ	„A“ = 22.86 „B“ = 35.41
SDD-3737-2-95-M	SDD-3737-2-95-MJ	SDD-3737-2-95-MN	SDD-3737-2-95-MNJ	„A“ = 19.05 „B“ = 31.60
SDD-3737-3-95-M	SDD-3737-3-95-MJ	SDD-3737-3-95-MN	SDD-3737-3-95-MNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MS	if with Ferrite Filter: -MSJ	if with Ferrite Filter: -MSN	if with Ferrite Filter: -MSNJ	

37-pin female / 37-pin male

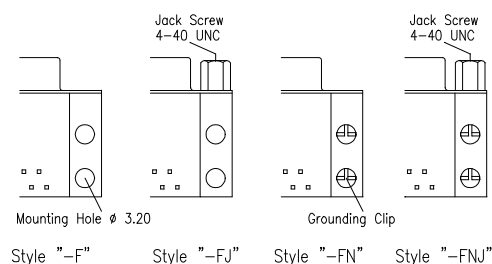
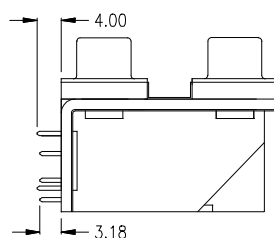
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-3737-1-95-FM	SDD-3737-1-95-FMJ	SDD-3737-1-95-FMN	SDD-3737-1-95-FMNJ	„A“ = 22.86 „B“ = 35.41
SDD-3737-2-95-FM	SDD-3737-2-95-FMJ	SDD-3737-2-95-FMN	SDD-3737-2-95-FMNJ	„A“ = 19.05 „B“ = 31.60
SDD-3737-3-95-FM	SDD-3737-3-95-FMJ	SDD-3737-3-95-FMN	SDD-3737-3-95-FMNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -FMS	if with Ferrite Filter: -FMSJ	if with Ferrite Filter: -FMSN	if with Ferrite Filter: -FMSNJ	

37-pin male / 37-pin female

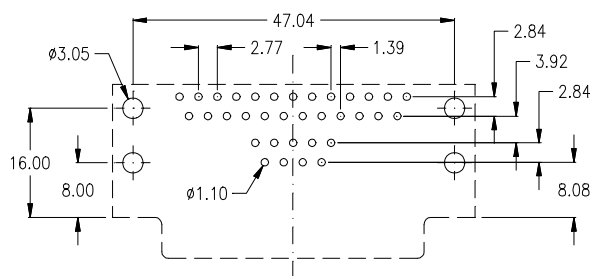
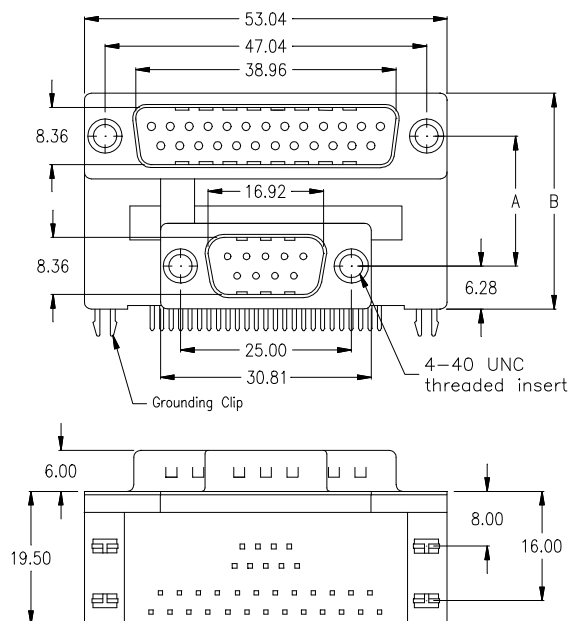
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-3737-1-95-MF	SDD-3737-1-95-MFJ	SDD-3737-1-95-MFN	SDD-3737-1-95-MFNJ	„A“ = 22.86 „B“ = 35.41
SDD-3737-2-95-MF	SDD-3737-2-95-MFJ	SDD-3737-2-95-MFN	SDD-3737-2-95-MFNJ	„A“ = 19.05 „B“ = 31.60
SDD-3737-3-95-MF	SDD-3737-3-95-MFJ	SDD-3737-3-95-MFN	SDD-3737-3-95-MFNJ	„A“ = 15.87 „B“ = 28.42
if with Ferrite Filter: -MFS	if with Ferrite Filter: -MFSJ	if with Ferrite Filter: -MFSN	if with Ferrite Filter: -MFSNJ	

25-pin female / 9-pin female

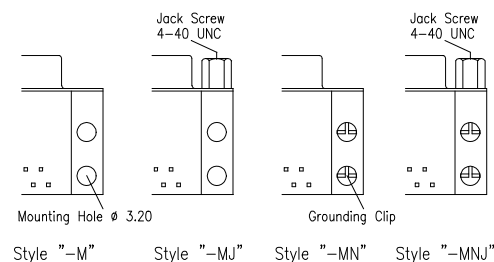
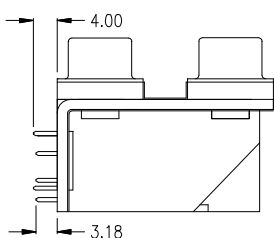
PCB hole layout



without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-2509-2-95-F	SDD-2509-2-95-FJ	SDD-2509-2-95-FN	SDD-2509-2-95-FNJ	„A“ = 19.05 „B“ = 31.60

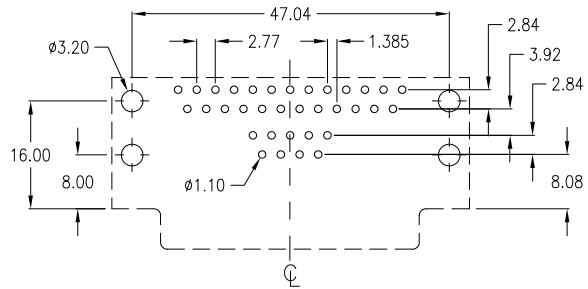
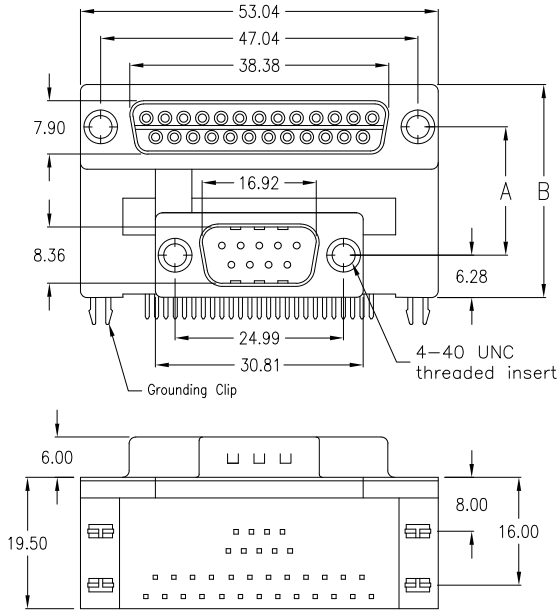
25-pin male / 9-pin male

PCB hole layout

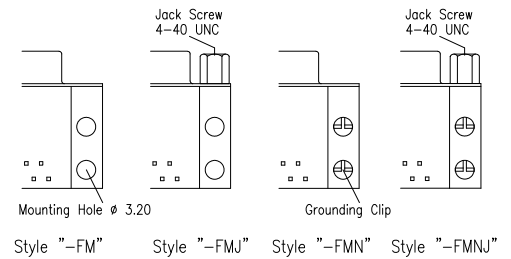
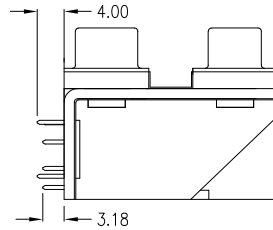


without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions
SDD-2509-2-95-M	SDD-2509-2-95-MJ	SDD-2509-2-95-MN	SDD-2509-2-95-MNJ	„A“ = 19.05 „B“ = 31.60

25-pin female / 9-pin male

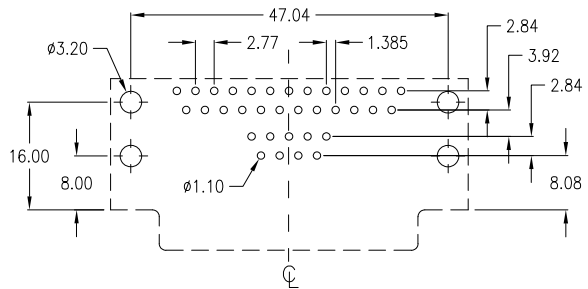
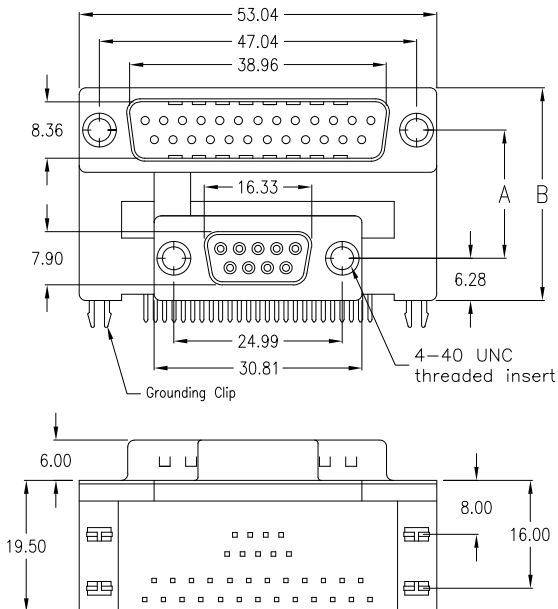


PCB hole layout

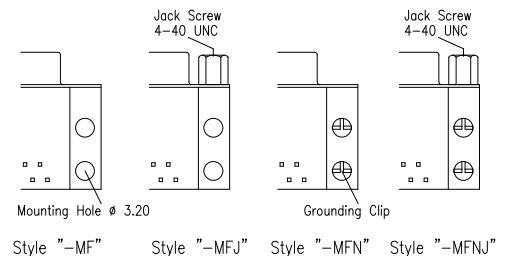
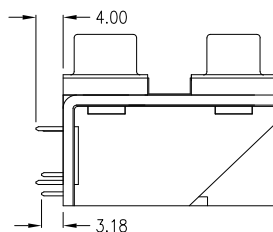


without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-2509-2-95-FM	SDD-2509-2-95-FMJ	SDD-2509-2-95-FMN	SDD-2509-2-95-FMNJ	„A“ = 19.05	„B“ = 31.60

25-pin male / 9-pin female

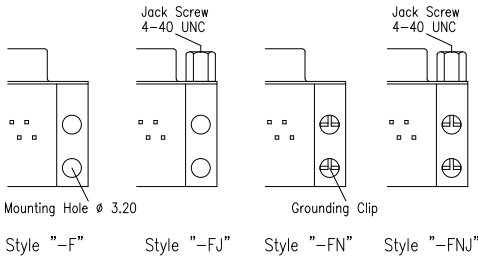
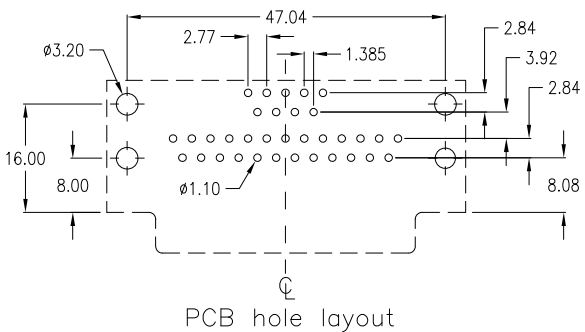
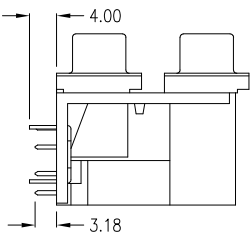
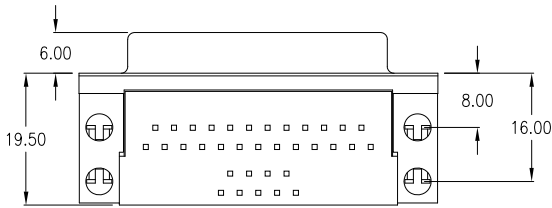
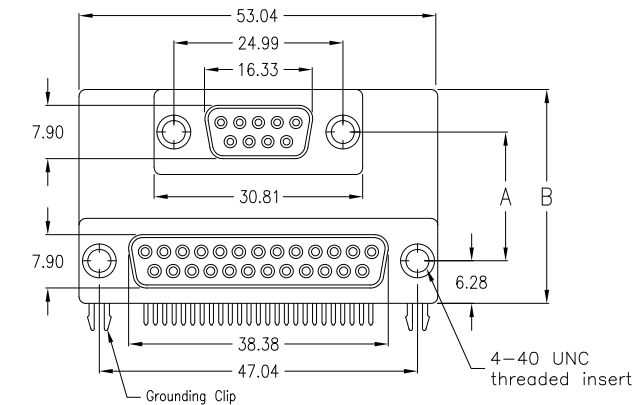


PCB hole layout

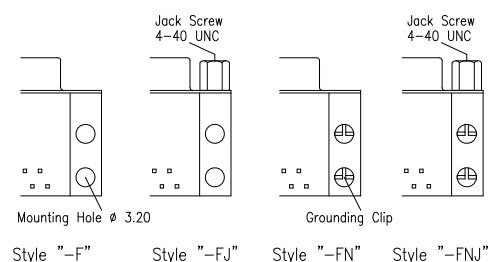
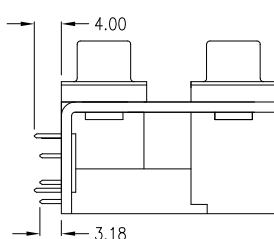
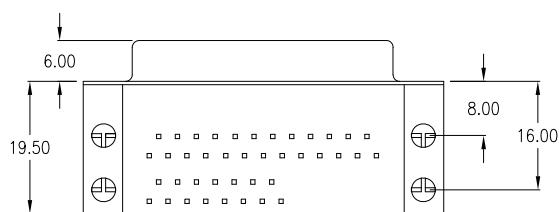
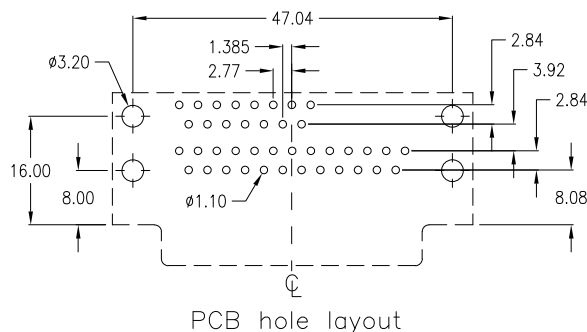
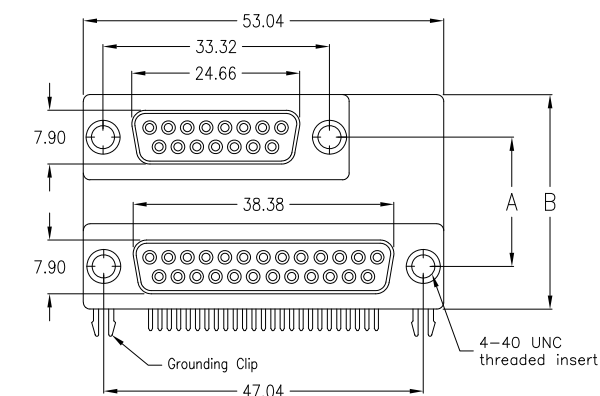


without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-2509-2-95-MF	SDD-2509-2-95-MFJ	SDD-2509-2-95-MFN	SDD-2509-2-95-MFNJ	„A“ = 19.05	„B“ = 31.60

9-pin female / 25-pin female



without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-0925-2-95-F	SDD-0925-2-95-FJ	SDD-0925-2-95-FN	SDD-0925-2-95-FNJ	„A“ = 19.05	„B“ = 31.60
SDD-0925-3-95-F	SDD-0925-3-95-FJ	SDD-0925-3-95-FN	SDD-0925-3-95-FNJ	„A“ = 15.87	„B“ = 28.42

15-pin female left side / 25-pin femalewithout grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mountedDistance Dimensions
(mm)

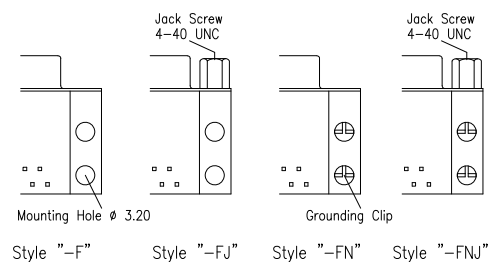
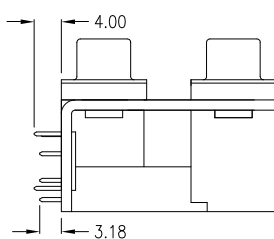
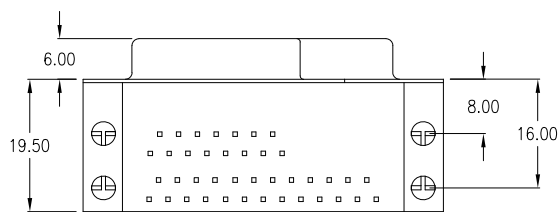
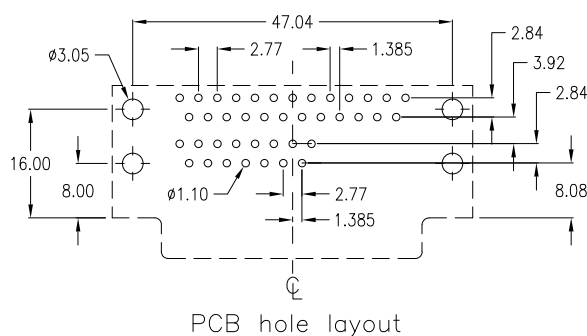
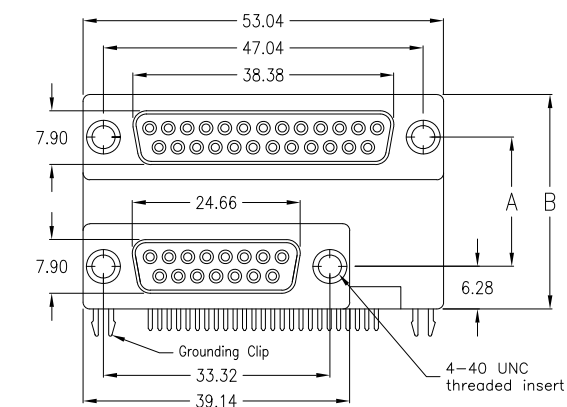
SDD-L1525-2-95-F

SDD-L1525-2-95-FJ

SDD-L1525-2-95-FN

SDD-L1525-2-95-FNJ

„A“ = 19.05 „B“ = 31.60

25-pin female / 15-pin female left side**Special product.****Please ask for availability and minimum order quantity before you consider the article for development, design in or production purposes.**without grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mountedDistance Dimensions
(mm)

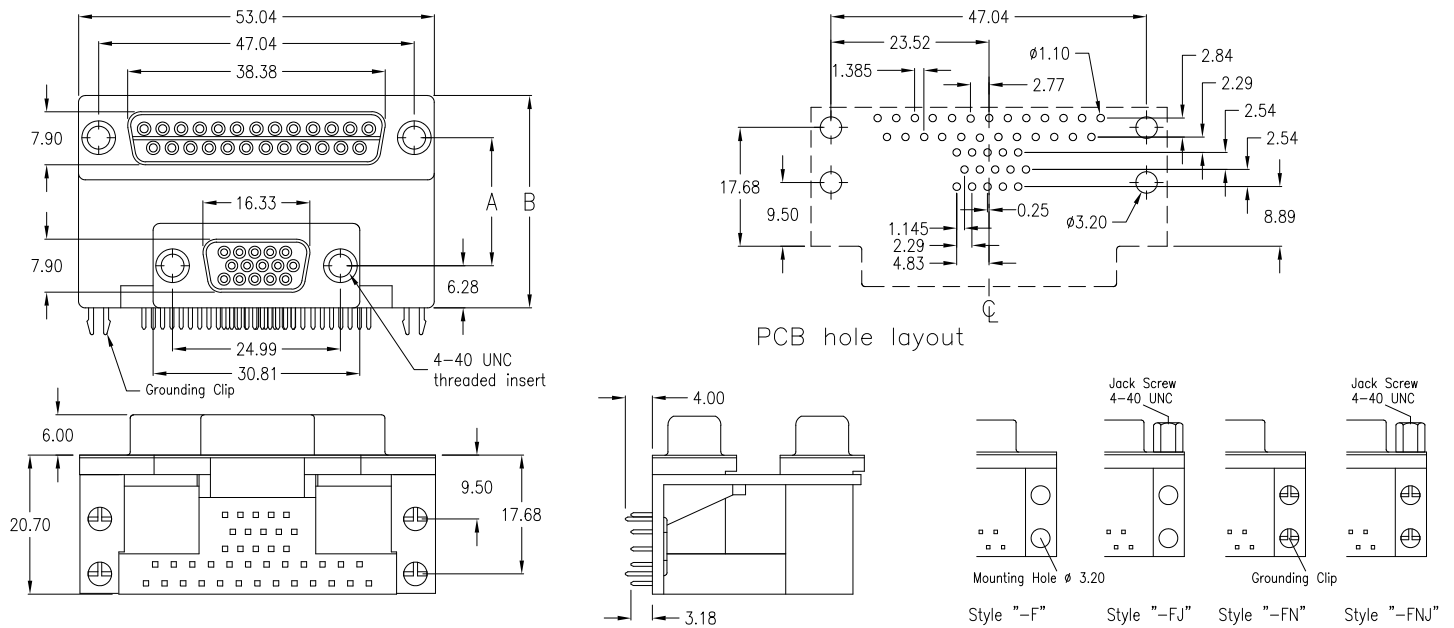
SDD-25L15-2-95-F

SDD-25L15-2-95-FJ

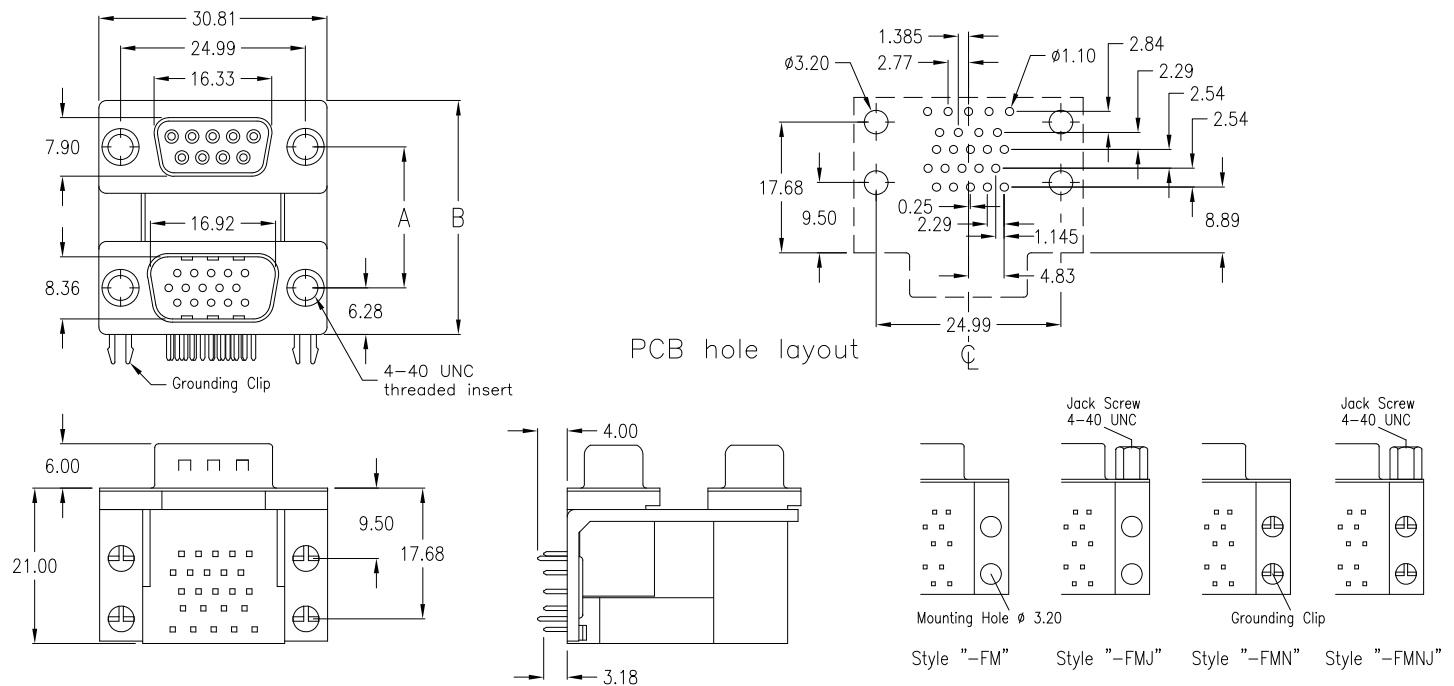
SDD-25L15-2-95-FN

SDD-25L15-2-95-FNJ

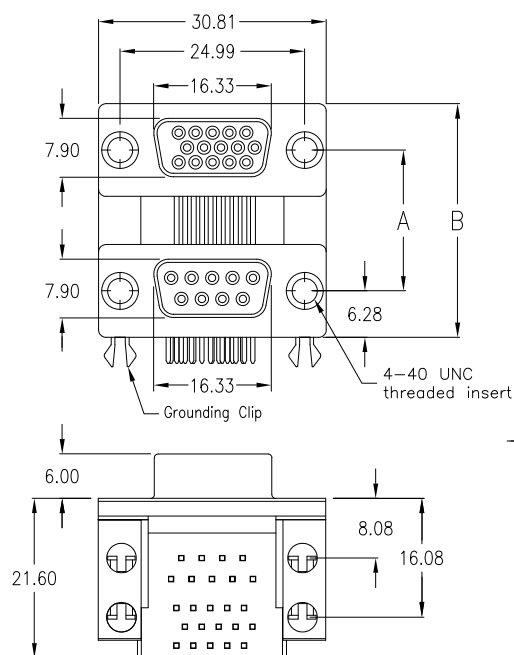
„A“ = 19.05 „B“ = 31.60

25-pin female / 15-pin HD female

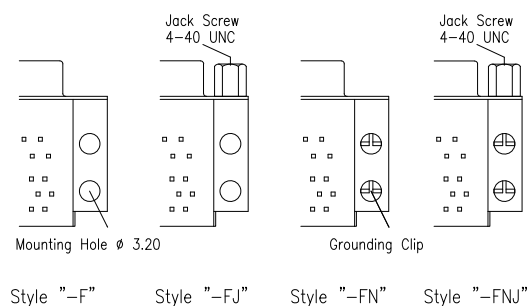
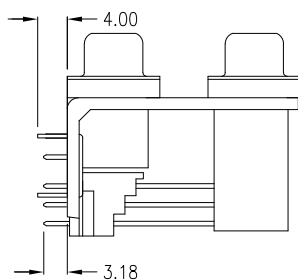
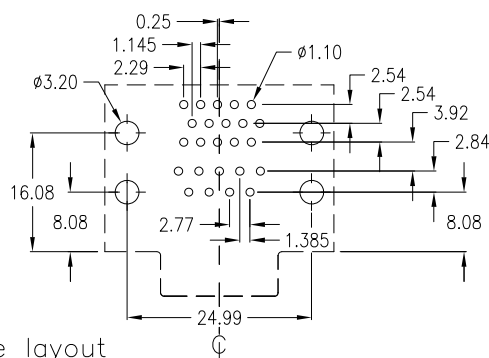
without grounding clips just 4 mounting holes	without grounding clips; just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-25H15-4-95-F	SDD-25H15-4-95-FJ	SDD-25H15-4-95-FN	SDD-25H15-4-95-FNJ	„A“ = 19.05	„B“ = 31.60

9-pin female / 15-pin HD male

without grounding clips just 4 mounting holes	without grounding clips; just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-09H15-4-95-FM	SDD-09H15-4-95-FMJ	SDD-09H15-4-95-FMN	SDD-09H15-4-95-FMNJ	„A“ = 19.05	„B“ = 31.60

15-pin HD female / 09-pin female

PCB hole layout

without grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mountedDistance Dimensions
(mm)

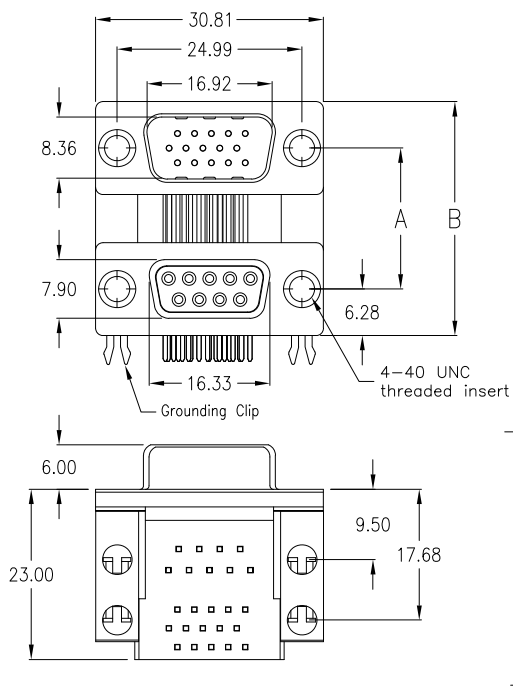
SDD-H1509-6-95-F

SDD-H1509-6-95-FJ

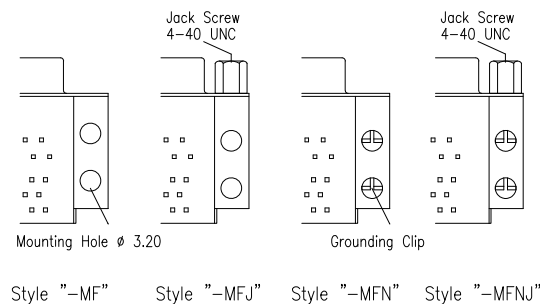
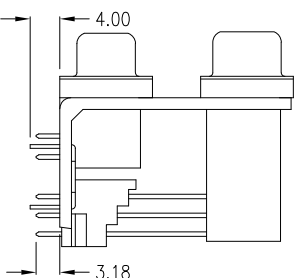
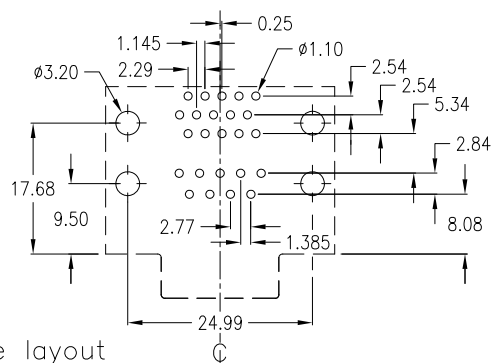
SDD-H1509-6-95-FN

SDD-H1509-6-95-FNJ

„A“ = 19.05 „B“ = 31.60

15-pin HD male / 09-pin female

PCB hole layout

without grounding clips
just 4 mounting holeswithout grounding clips,
just 4 mounting holes;
4 jack screws 4-40 UNC
mountedwith 4 grounding clips
(as above drawing)with 4 grounding clips;
4 jack screws 4-40 UNC
mountedDistance Dimensions
(mm)

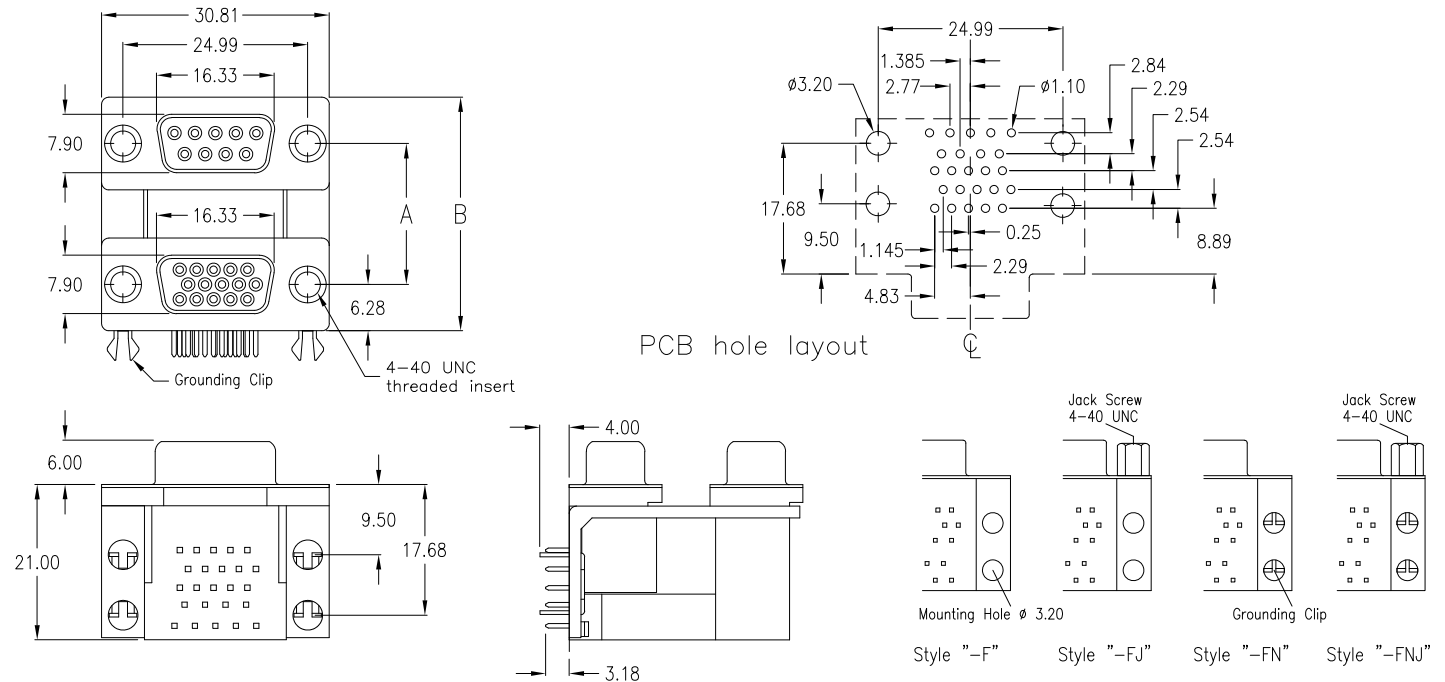
SDD-H1509-7-95-MF

SDD-H1509-7-95-MFJ

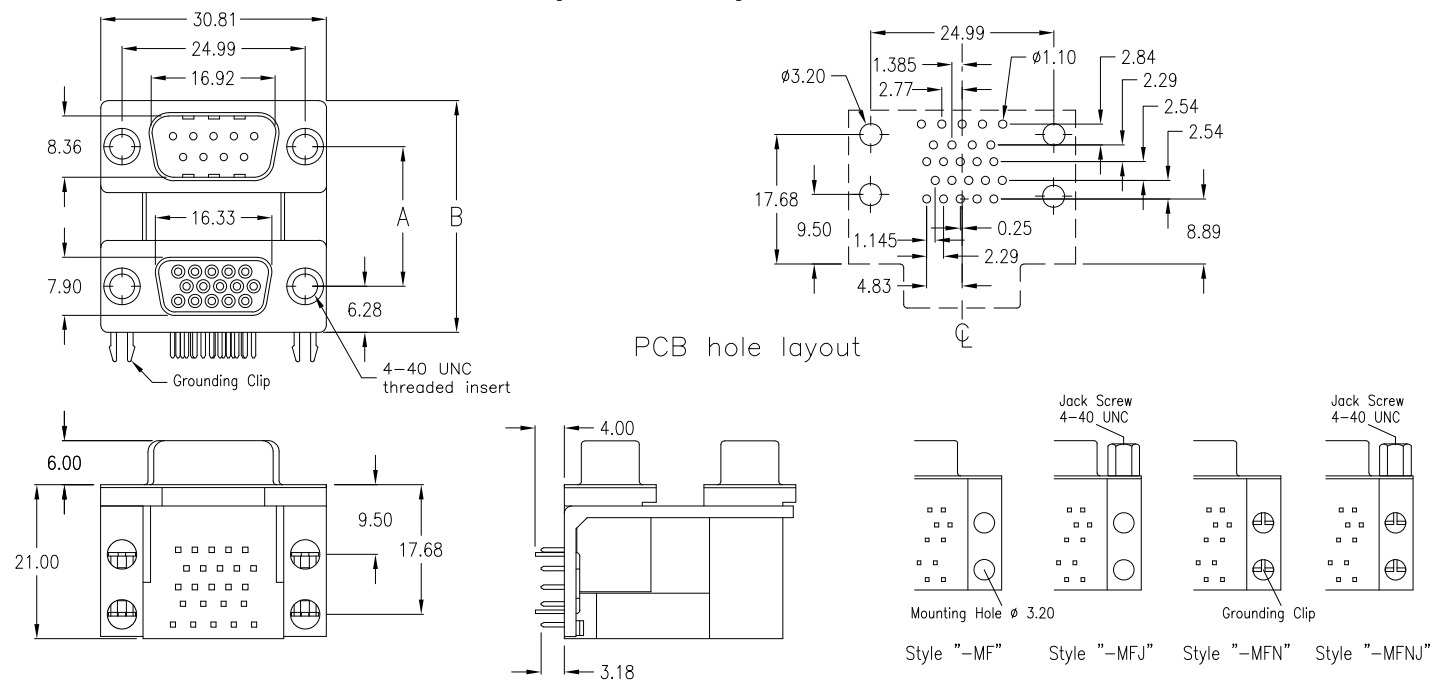
SDD-H1509-7-95-MFN

SDD-H1509-7-95-MFNJ

„A“ = 19.05 „B“ = 31.60

9-pin female / 15-pin HD female

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-09H15-4-95-F	SDD-09H15-4-95-FJ	SDD-09H15-4-95-FN	SDD-09H15-4-95-FNJ	„A“ = 19.05	„B“ = 31.60
SDD-09H15-5-95-F	SDD-09H15-5-95-FJ	SDD-09H15-5-95-FN	SDD-09H15-5-95-FNJ	„A“ = 15.88	„B“ = 28.42

9-pin male / 15-pin HD female

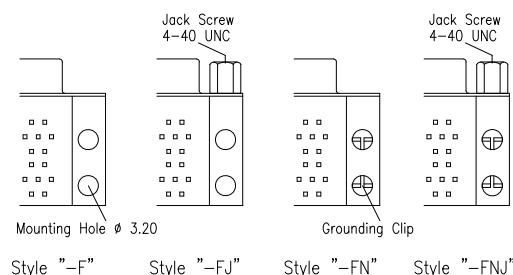
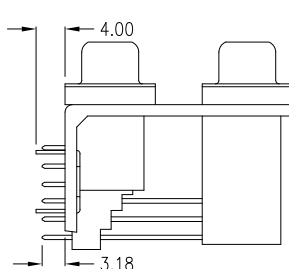
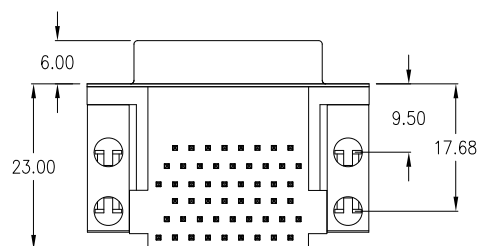
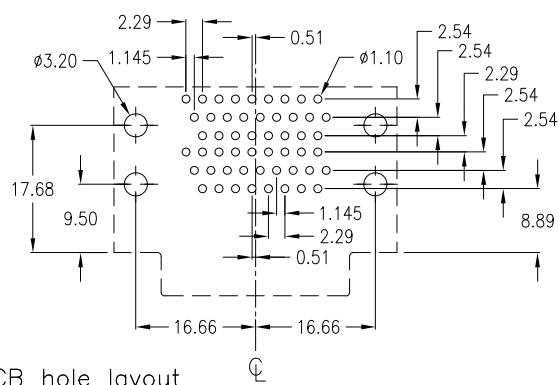
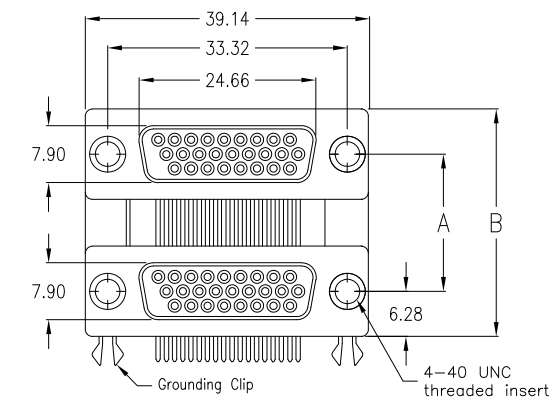
without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-09H15-4-95-MF	SDD-09H15-4-95-MFJ	SDD-09H15-4-95-MFN	SDD-09H15-4-95-MFNJ	„A“ = 19.05	„B“ = 31.60
SDD-09H15-5-95-MF	SDD-09H15-5-95-MFJ	SDD-09H15-5-95-MFN	SDD-09H15-5-95-MFNJ	„A“ = 15.88	„B“ = 28.42

Diagram illustrating four styles of mounting brackets:

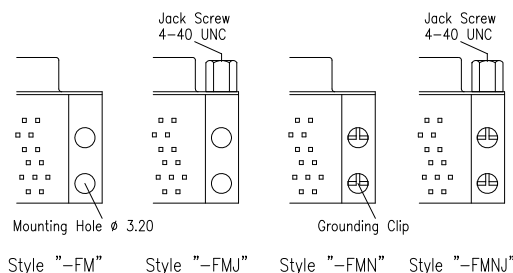
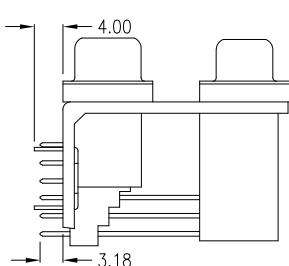
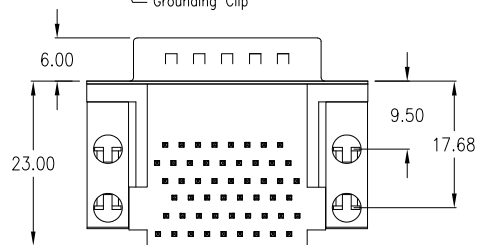
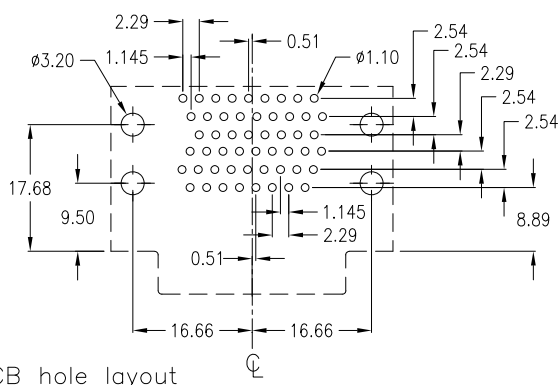
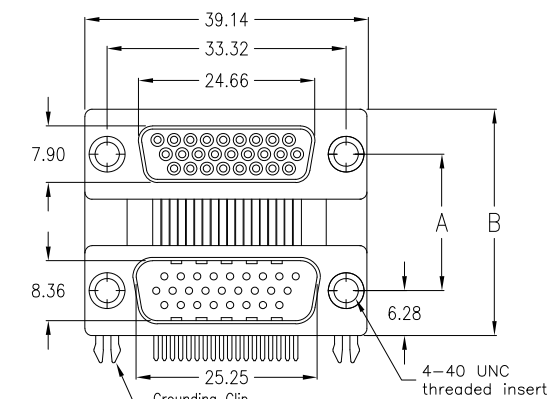
- Style "-FM"**: Shows a mounting hole with a diameter of $\varnothing 3.20$.
- Style "-FMJ"**: Shows a Jack Screw (4-40 UNC) for mounting.
- Style "-FMN"**: Shows a Grounding Clip for mounting.
- Style "-FMNJ"**: Shows a Jack Screw (4-40 UNC) for mounting.

Diagram illustrating four mounting styles for the device:

- Style "-F"**: Standard mounting hole. Mounting Hole ϕ 3.20.
- Style "-FJ"**: Mounting hole with Jack Screw 4-40 UNC.
- Style "-FN"**: Mounting hole with Grounding Clip.
- Style "-FNJ"**: Mounting hole with Jack Screw 4-40 UNC and Grounding Clip.

26-pin HD female / 26-pin HD female

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-H26H26-4-95-F	SDD-H26H26-4-95-FJ	SDD-H26H26-4-95-FN	SDD-H26H26-4-95FNJ	„A“ = 19.05	„B“ = 31.60
SDD-H26H26-5-95-F	SDD-H26H26-5-95-FJ	SDD-H26H26-5-95-FN	SDD-H26H26-5-95FNJ	„A“ = 15.88	„B“ = 28.42

26-pin HD female / 26-pin HD male

without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 4 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 4 jack screws 4-40 UNC mounted	Distance Dimensions (mm)	
SDD-H26H26-4-95-FM	SDD-H26H26-4-95-FMJ	SDD-H26H26-4-95-FMN	SDD-H26H26-4-95FMNJ	„A“ = 19.05	„B“ = 31.60
SDD-H26H26-5-95-FM	SDD-H26H26-5-95-FMJ	SDD-H26H26-5-95-FMN	SDD-H26H26-5-95FMNJ	„A“ = 15.88	„B“ = 28.42

The diagram illustrates four different styles of mounting brackets, each with a specific feature highlighted:

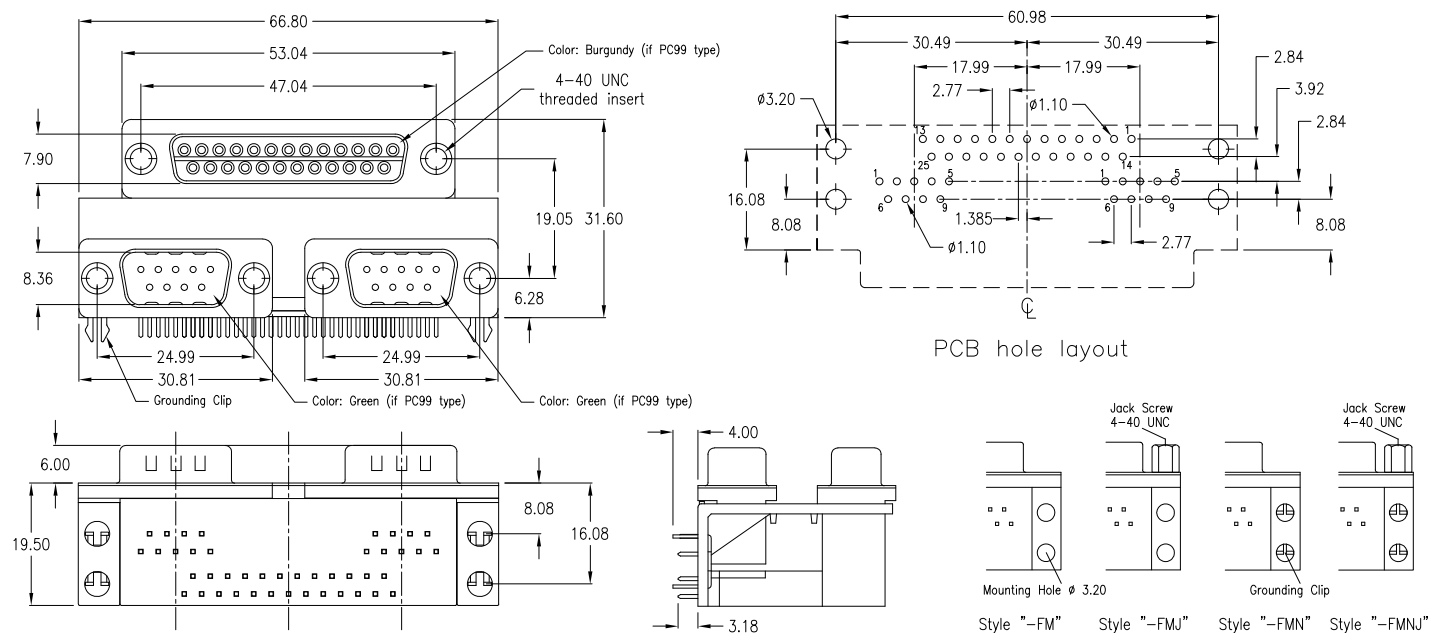
- Style "-F"**: Features a mounting hole with a diameter of $\phi 3.20$.
- Style "-FJ"**: Features a Jack Screw with dimensions 4-40 UNC.
- Style "-FN"**: Features a Grounding Clip.
- Style "-FNU"**: Features a Jack Screw with dimensions 4-40 UNC.

Style "-FN"

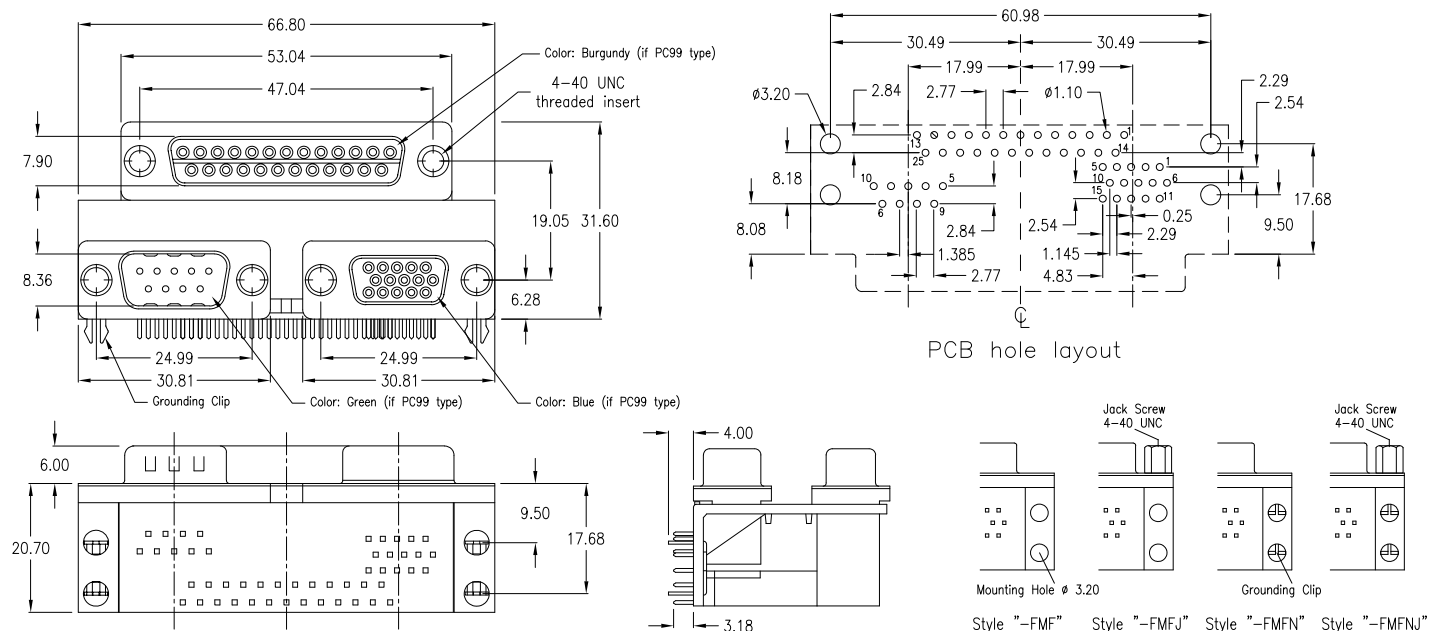
Style "-FNU"

Jack Screw
4-40 UNC

67

25-pin female / 9-pin male / 9-pin male

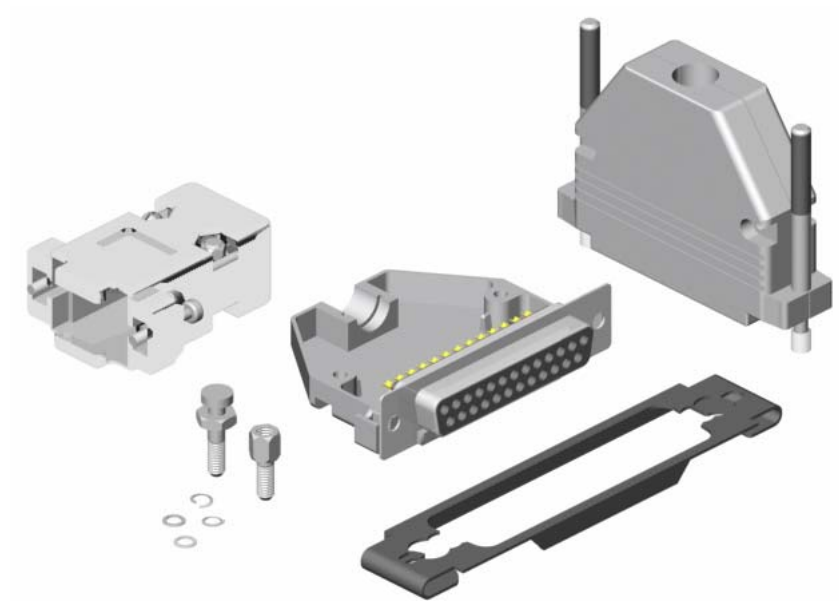
Version	without grounding clips, just 4 mounting holes	without grounding clips, just 4 mounting holes; 6 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 6 jack screws 4-40 UNC mounted
Standard: black color Insulator	SDD-2599-2- 95 -FMM	SDD-2599-2- 95 -FMMJ	SDD-2599-2- 95 -FMMN	SDD-2599-2- 95 -FMMNJ
meets PC99 spec	SDP-2599-2- 95 -FMM	SDP-2599-2- 95 -FMMJ	SDP-2599-2- 95 -FMMN	SDP-2599-2- 95 -FMMNJ

25-pin female / 9-pin male / 15-pin HD female

Version	without grounding clips just 4 mounting holes	without grounding clips, just 4 mounting holes; 6 jack screws 4-40 UNC mounted	with 4 grounding clips (as above drawing)	with 4 grounding clips; 6 jack screws 4-40 UNC mounted
Standard: black color Insulator	SDD-259H15-4- 95 -FMF	SDD-259H15-4- 95 -FMFJ	SDD-259H15-4- 95 -FMFN	SDD-259H15-4- 95 FMFNJ
Meets PC99 spec.	SDP-259H15-4- 95 -FMF	SDP-259H15-4- 95 -FMFJ	SDP-259H15-4- 95 -FMFN	SDP-259H15-4- 95 FMFNJ

D-Sub

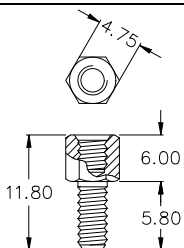
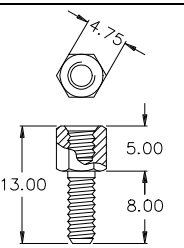
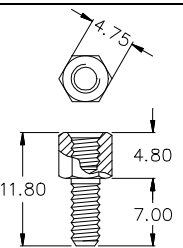
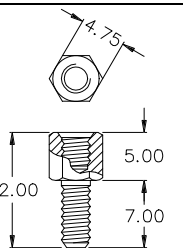
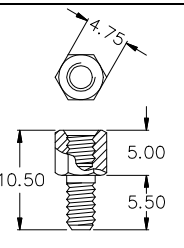
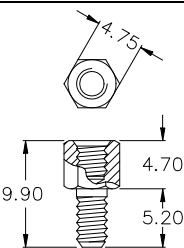
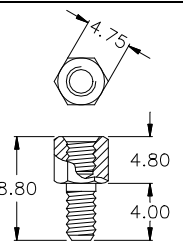
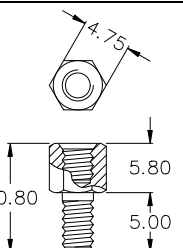
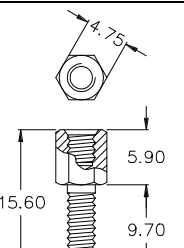
Accessories & Technical Data



E-tec's D-Sub Connector accessories.

EMI / RFI full metal hoods, plastic and plastic metallized hoods.

Slide lock parts and a variety of jack screws.

 T 600	 T 601	 T 602	 T 603	 T 604 for „Low Profile“ D-Sub Page 8 to 13
 T 605		 T 607 for „Press Fit“ D-Sub Page 30	 T 609	 T 610

Ordering Code

JSR - xxx - X xxx - NN

thread combination		thread combi-code
inside	outside	
M 2,6	4-40 UNC	244
2-56 UNC	2-56 UNC	256
M 3	M 3	300
M 3	M 2,6	326
M 3	4-40 UNC	344
4-40 UNC	4-40 UNC	440
4-40 UNC	M 3	443

size type

T 600

T 601

T 602 standard type

T 603

T 604 for „Low Profile“ D-Sub; Page 8 to 13

T 605

T 607 for „press fit“ D-Sub; Page 30

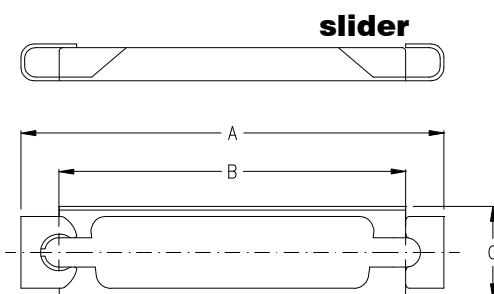
T 609

T 610

If you order D-Sub connector assembled with Jack screw,
T602 type always will be delivered.

Jack Screws with other dimension, also round head, are available on request.

Slide locking accessories



slider

A set of slider
consists of:

- * 1 frame
- * 2 screws 4-40 UNC
- * 2 washers
- * 2 nuts 4-40 UNC

Ordering Code

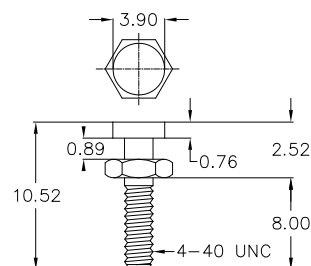
SLO - xxx - T 106 - NN

No. of contacts

009 - 015 - 025

other sizes on request

locking post



Ordering Code

JLP - 440 - T 106 - NN

If you want to have assembled to the D-Sub connector direct,
please ask the nearest E-tec office or Distributor

Jack Screws and Slide locking accessories are Nickel plated

metal hood

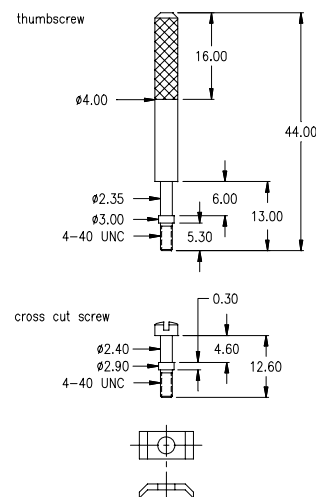
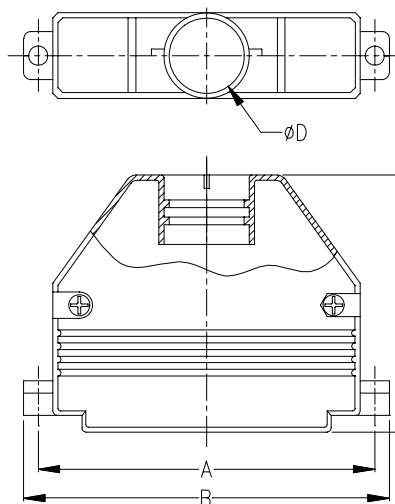
materials **RoHS compliant**

hood: zinc alloy Nickel plated

screw: steel

Please ask for detail drawing each type.

Dimension				D-Sub contacts
A	B	C	D	
24.99	31.00	47.00	7.00	009 / 015 (HD)
33.32	40.00	48.20	10.00	015 / 026 (HD)
47.04	53.30	48.70	14.00	025 / 044 (HD)
63.50	69.00	48.60	14.00	037 / 062 (HD)
61.11	67.00	48.30	14.00	050 / 078 (HD)



Ordering Code

HSM - xxx - S xxx - xx Z

Size Code	screw type	cable exit
009 = 9-pole Std. / 15-pole HD	101 = cross cut screw not available for 90° cable exit	00 = straight
015 = 15-pole Std. / 26-pole HD	102 = thumbscrew	90 = 90°
025 = 25-pole Std. / 44-pole HD		with Rubber grommet:
037 = 37-pole Std. / 62-pole HD		0R = straight
050 = 50-pole Std. / 78-pole HD	others on request	9R = 90°
		90° cable exit only for size code 009/H15 015/H26 025/H44

plastic hood

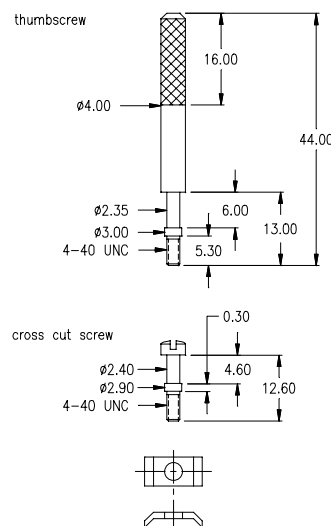
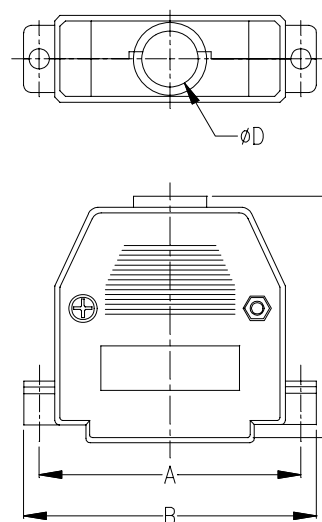
materials **RoHS compliant**

hood: PBT UL 94-V0

screw: steel

Please ask for detail drawing each type.

Dimension				D-Sub contacts
A	B	C	D	
24.99	30.80	40.50	7.00	009 / 015 (HD)
33.32	39.70	38.80	9.70	015 / 026 (HD)
47.04	55.00	44.50	14.00	025 / 044 (HD)
63.50	69.00	52.50	14.00	037 / 062 (HD)
61.11	67.00	48.30	14.00	050 / 078 (HD)



Ordering Code

HS X - xxx - S xxx - xx Z

colour / type	Size Code	screw type	cable exit
B = black	009 = 9-pole Std. / 15-pole HD	101 = cross cut screw not available for 45° cable exit	00 = straight
G = grey	015 = 15-pole Std. / 26-pole HD	102 = thumbscrew	45 = 45°
C = chromated	025 = 25-pole Std. / 44-pole HD		
others on request	037 = 37-pole Std. / 62-pole HD	others on request	
	050 = 50-pole Std. / 78-pole HD		

mechanical data

Mating force per contact	$\leq 3,4 \text{ N}$
Unmating force per contact	$\geq 0,2 \text{ N}$
Temperature range	-55° C to $+105^{\circ} \text{ C}$
Processing temperature wave solder (solder bath)	$+250^{\circ} \text{ C} \pm 0/-5^{\circ} \text{ C}$ for 10sec.
Processing temperature SMT and "pin in paste"	$+250^{\circ} \text{ C} \pm 0/-5^{\circ} \text{ C}$ for 10sec.
Moisture absorption from air 50% rh	0,10%
IDC Connector types accept AWG 26 or AWG 28 standard wire	

materials and plating (RoHS compliant)

Insulator for wave solder technology, standard black - PC 99 colourful insulator	thermoplastic glassfilled UL 94V – 0 Yellowish brown - Pantone # 131C 15-pos. female Burgundy - Pantone # 235C 25-pos. female Teal - Pantone # 322C 9-pos. male Blue - Pantone # 661C HD 15-pos. female
Insulator for SMT and "Pin-In-Paste"	Nylon UL 94V-0
Shell	Steel, Ni plated
Bracket	Brass, tin plated
Male contact - plating	Copper Alloy (Standard; others on request) -95 = solder side Sn; contact side Au over Ni -55 = solder and contact side Au over Ni
Female contact - plating	Copper Alloy (Standard; others on request) -95 = solder side Sn; contact side Au over Ni -55 = solder and contact side Au over Ni -NN = Ni
D-Sub Accessories (page 70) plating	

electrical data

max. Current rating	5 A/25°C 3 A/70°C (High Density types 3A / IDC types 1A)
Operating voltage	250 V
Test voltage between contacts	1000 V / 50/60 Hz / 1 Minute
Test voltage between shell and contacts	1000 V / 50/60 Hz / 1 Minute
Resistance between mated contacts	$< 30 \text{ m } \Omega$
Insulation resistance	$\geq 1000 \text{ M } \Omega$ at 500V DC
Dielectric strength	1000 V AC min. for 1 Minute
Volume resistivity	$10^{16} \text{ } \Omega \text{ cm}$ (ASTM-D 257)

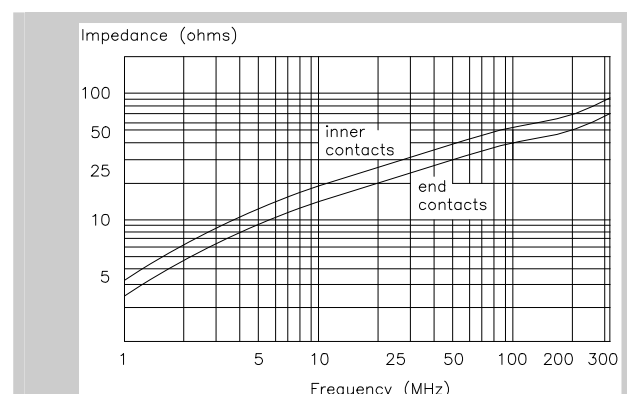
available performance classes

E-tec D-Sub connectors comply with Performance Class 3 (min. 50 contact cycles).

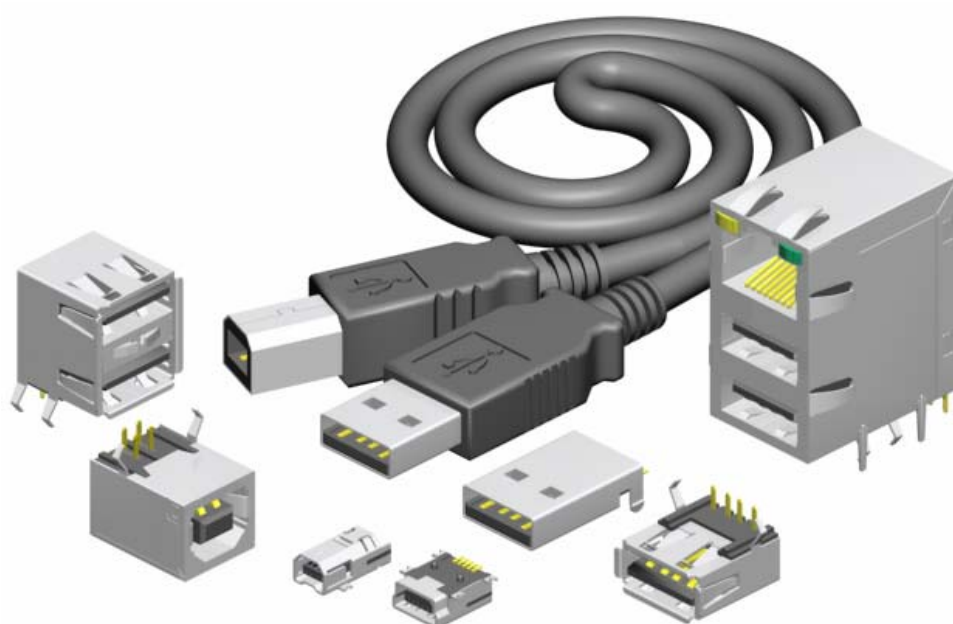
Please contact E-tec first for availability of Performance Class 2 (min. 200 contact cycles) and 1 (min. 500 contact cycles)

D-Sub with Filter (ferrite)

Frequency range	10 - 300 MHz
Impedance	5 MHz - 15 Ω
	25 MHz - 30 Ω
	100 MHz - 50 Ω
	300 MHz - 75 Ω



U S B & IEEE 1394 Connectors



The USB (Universal Serial Bus) connectors allow „plug & play“ connection of peripherals to PC´s.

Hot plugging and automatic reconfiguration are the main advantages of this technology.

The USB product line comprises SMT and thru-hole PCB mounting connectors, all of which comply to international standards.

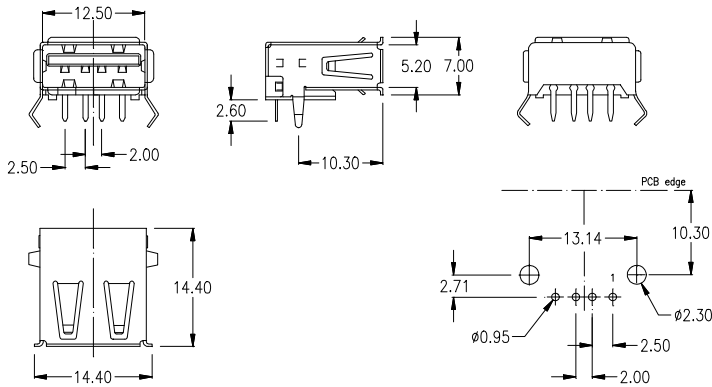
USB & IEEE1394 cable assemblies are available on request or please refer to www.e-tec.com for more details.

USS Series

USB Connector Type „A”



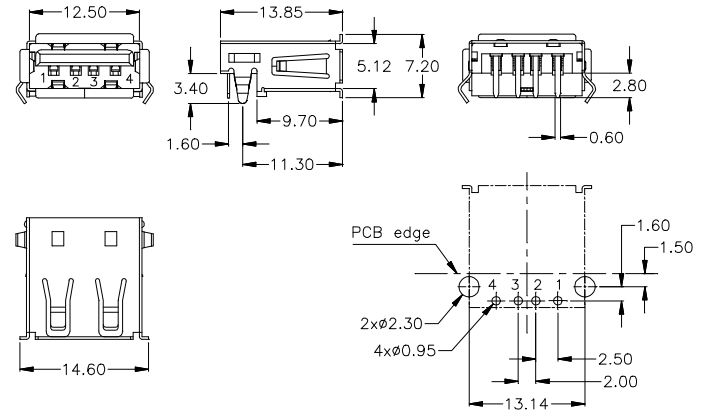
single port right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - W04 - RA01 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **USS - W04 - RA21 - 98** (- B04 - if black housing)

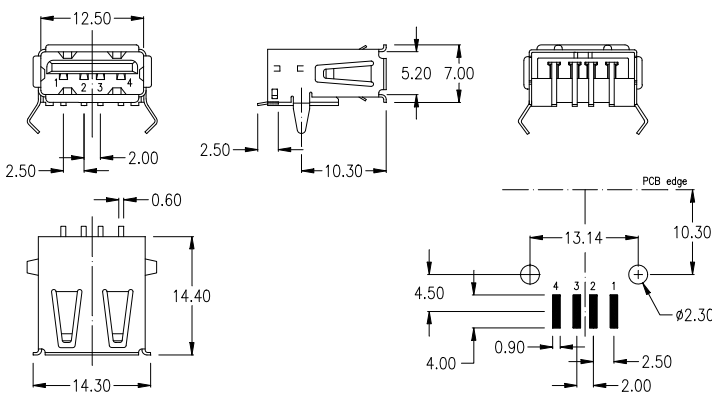
“low profile” single port right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **ULS - W04 - RAS0 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **ULS - W04 - RAS2 - 98** (- B04 - if black housing)

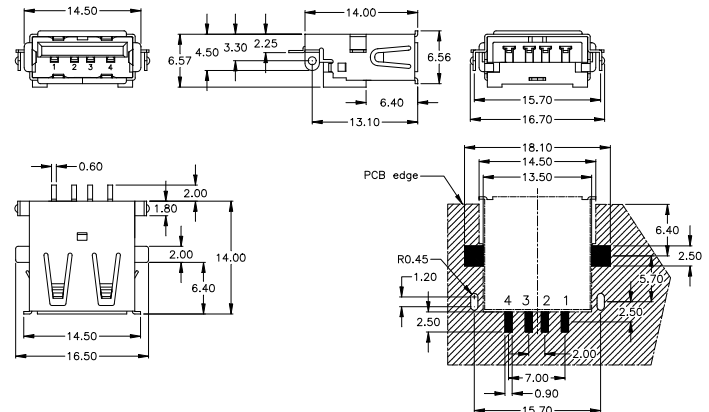
single port right angle; SMT



ORDER CODE:

USB 1.0 corresponding **USS - W04 - SAS0 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **USS - W04 - SAS2 - 98** (- B04 - if black housing)
 Please contact your closest E-tec sales office for order code if reel packaging is required.

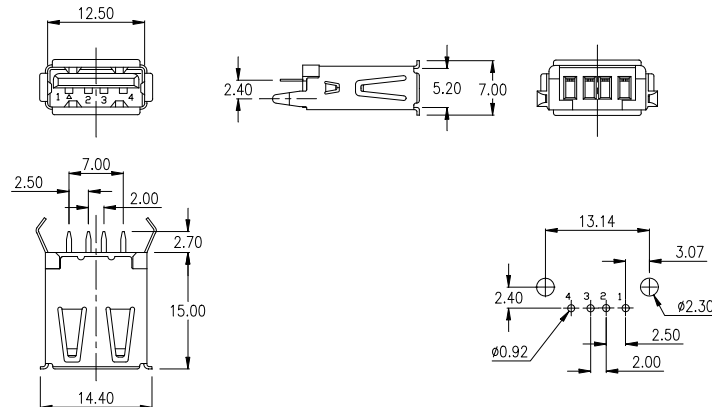
“low profile” single port right angle; SMT



ORDER CODE:

USB 1.0 corresponding **ULS - W04 - SAS0 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **ULS - W04 - SAS2 - 98** (- B04 - if black housing)
 Please contact your closest E-tec sales office for order code if reel packaging is required.

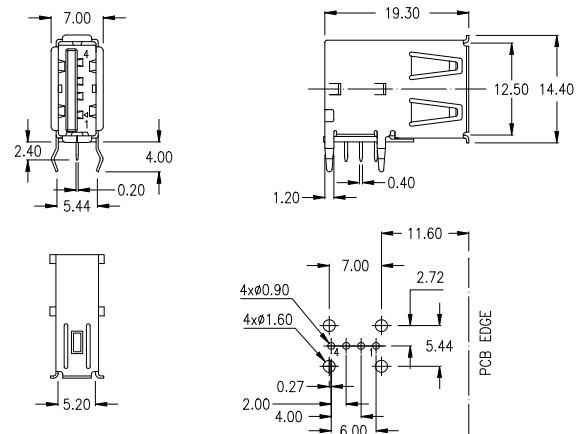
single port top entry; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - W04 - TA01 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **USS - W04 - TA21 - 98** (- B04 - if black housing)

single port vertical; soldertail „one line foot”



ORDER CODE:

USB 1.0 corresponding **USS - W04 - VA01 - 95** (- B04 - if black housing)
 USB 2.0 corresponding **USS - W04 - VA21 - 98** (- B04 - if black housing)

Specification

Material

Contact	(RoHS compliant)	Phosphor bronze
Plating:	Contact area	Au flash over Ni (USB 1.0 corresponding) Au 30μ" over Ni (USB 2.0 corresponding)
	Solder area	Sn (leadfree)
Housing	(RoHS compliant)	PBT white UL 94-V0 (PBT black on request)
SMT Housing	(RoHS compliant)	Nylon 9T UL 94-V0
Shell	(RoHS compliant)	brass, 80μ"-120μ" Ni plated

Mechanical

Mating cycles	1.500 min.
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Electrical

Current rating	1,5 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	750V AC (rms) 1 Minute (USB 1.0) 500V AC (rms) 1 Minute (USB 2.0)
Insulation resistance	1.000MΩ min. (500V DC)
Contact resistance	30mΩ max.

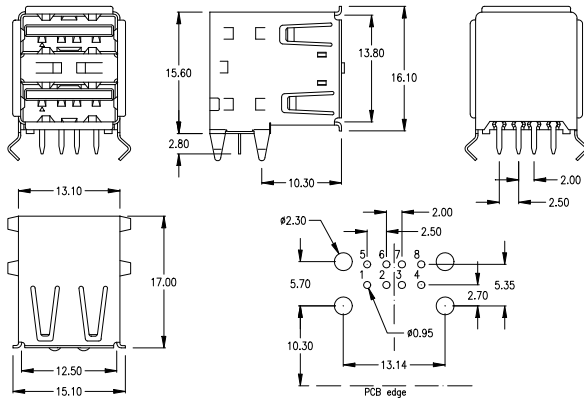
Others

Operating temperature	-55° C to +85° C
Processing temp. for SMT type	+260° C for 10 sec. max.

USS Series Multi Port USB Connector Type „A”



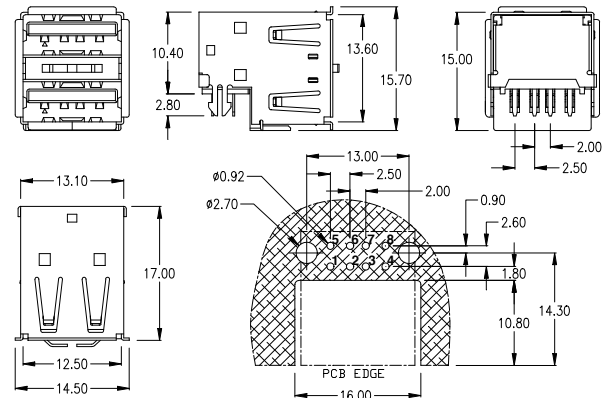
dual port right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - W08 - RA02 - 95** (- B08 - if black housing)
 USB 2.0 corresponding **USS - W08 - RA22 - 98** (- B08 - if black housing)

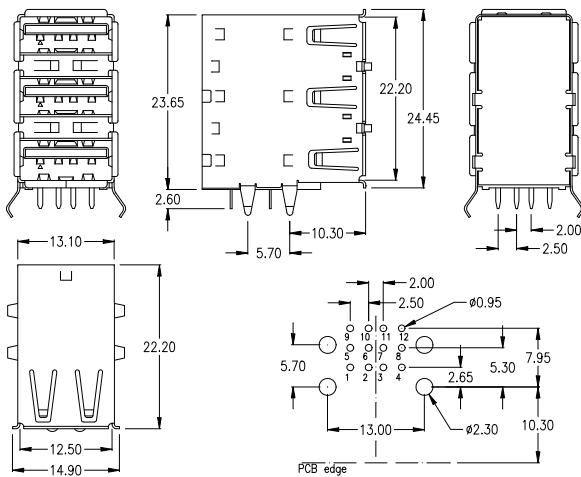
dual port "low profile" right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **ULS - W08 - RA02 - 95** (- B08 - if black housing)
 USB 2.0 corresponding **ULS - W08 - RA22 - 98** (- B08 - if black housing)

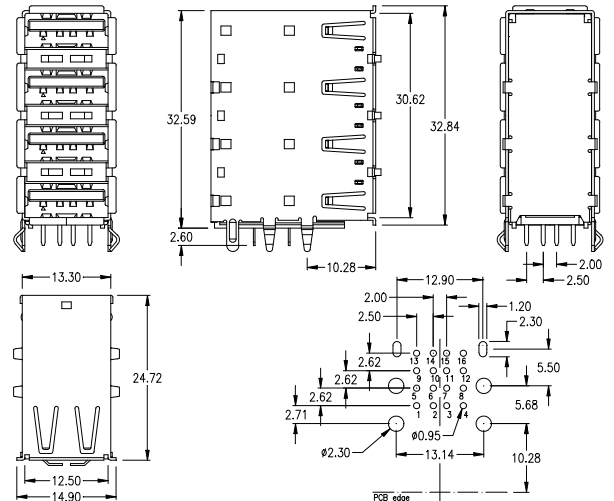
triple port right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - B12 - RA03 - 95** (- W12 - if white housing)
 USB 2.0 corresponding **USS - B12 - RA23 - 98** (- W12 - if white housing)

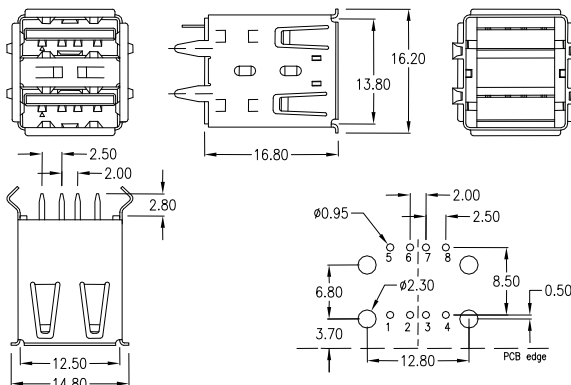
quad port right angle; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - B16 - RA04 - 95** (- W16 - if white housing)
 USB 2.0 corresponding **USS - B16 - RA24 - 98** (- W16 - if white housing)

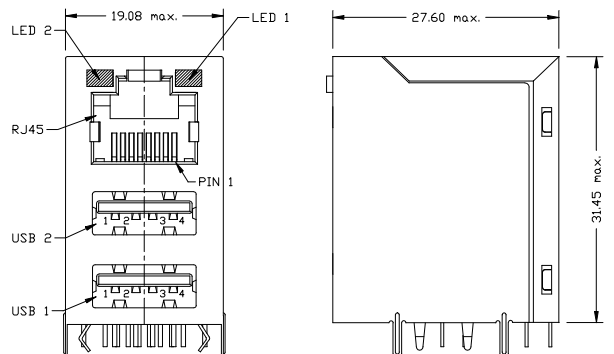
dual port "top entry"; soldertail



ORDER CODE:

USB 1.0 corresponding **USS - W08 - TA02 - 95** (- B08 - if black housing)
 USB 2.0 corresponding **USS - W08 - TA22 - 98** (- B08 - if black housing)

USB / RJ45 Combi Multi Port



E-tec also offers a USB / RJ45 Combi Multi Port as TX filtered transformer type with integrated LED.
 Datasheets of the different available variations can be obtained on www.e-tec.com or from your closest E-tec sales office.

Specification

Material

Contact (RoHS compliant)	Phosphor Bronze
Plating:	
Contact area	Au flash over Ni (USB 1.0 corresponding) Au 30µ" over Ni (USB 2.0 corresponding)
Solder area	Sn (leadfree)
Housing (RoHS compliant)	PBT UL 94-V0
Shell (RoHS compliant)	Brass, 80µ"-120µ" Ni plated

Mechanical

Mating cycles	1.500 min.
---------------	------------

Electrical

Current rating	1,5 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	750V AC (rms) 1 Minute (USB 1.0) 500V AC (rms) 1 Minute (USB 2.0)
Insulation resistance	1.000MΩ min. (500V DC)
Contact resistance	30mΩ max.

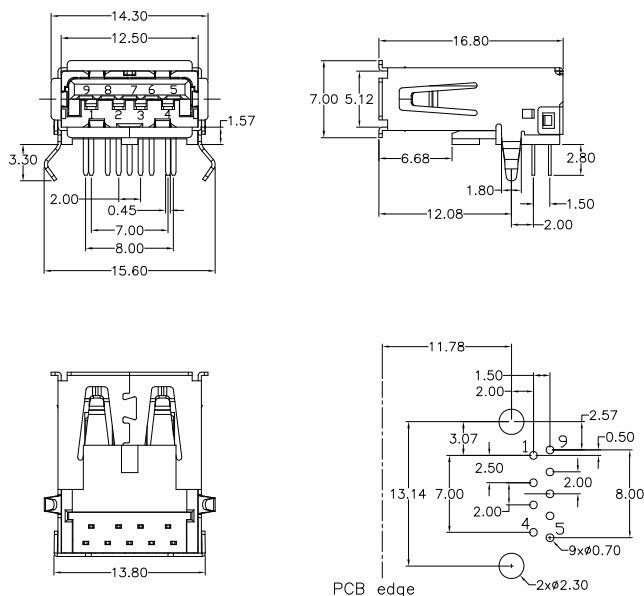
Others

Operating temperature	-55° C to +85° C
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USS Series USB 3.0 Connector Type „A”

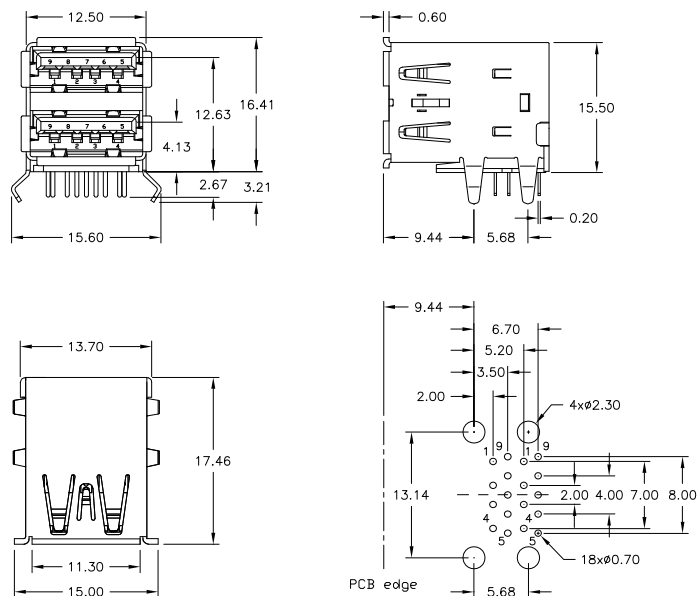


single port right angle; soldertail



ORDER CODE: **USS - BU09 - RA31 - 98**

dual port right angle; soldertail



ORDER CODE: **USS - BU18 - RA32 - 98**

Specification

Material

Contact	Phosphor bronze
Plating:	
Contact area	Au 30μ" over Ni
Solder area	Sn (<i>leadfree</i>)
Housing (Single port)	P.B.T. UL 94-V0 blue
Housing (Dual port)	Nylon 9T UL 94-HB blue
Shell (Single port)	Steel, 80μ"-120μ" Ni plated
Shell (Dual port)	Brass, 80μ"-120μ" Ni plated

Mechanical

Mating cycles	1.500 min.
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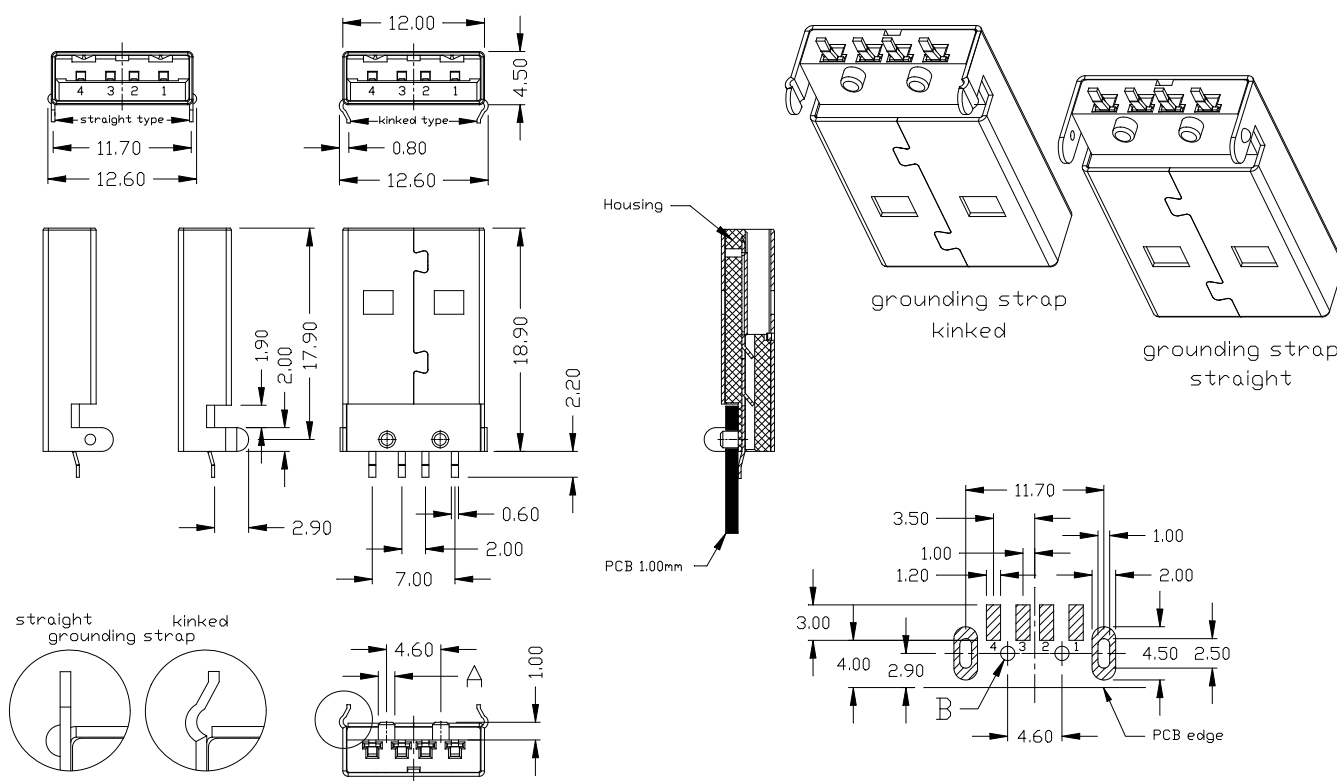
Electrical

Current rating	1,8 A max. 1 Contact (Signal only)
Voltage rating	100V AC (rms)
Withstanding voltage	500V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	30mΩ max.

Others

Operating temperature	-55° C to +85° C
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SMT Type



Recommendation:

DIM. "B" = $\varnothing$ 1,20mm if locating peg $\varnothing$ "A"=1,00mm

DIM. "B" = $\varnothing$ 1,60mm if locating peg $\varnothing$ "A"=1,40mm

ORDER CODE

USP - B 04 - SA x x - XX

Housing Colour

Black (Standard) = **B**
others on request

USB Corresponding

1 - 95 = USB 1.0 corresponding

2 - 98 = USB 2.0 corresponding

Execution

0 = kinked grounding pins; locating pegs $\varnothing$ 1.00mm

1 = straight grounding pins; locating pegs $\varnothing$ 1.00mm

2 = kinked grounding pins; locating pegs $\varnothing$ 1.40mm

3 = straight grounding pins; locating pegs $\varnothing$ 1.40mm

(for locating peg dim. pls. go to drawing DIM. "A")

Specification

Material

Contact (RoHS compliant)	Brass
Plating:	
Contact area	Au flash over Ni (USB 1.0 corresponding) Au 30 μ " over Ni (USB 2.0 corresponding)
Solder area	Sn (leadfree)
Housing (RoHS compliant)	Nylon UL 94-V0
Shell (RoHS compliant)	brass, 80 μ "-120 μ " Ni plated

Mechanical

Mating cycles	1.500 min.
SMT coplanarity	0.10mm

Electrical

Current rating	1 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	750V AC (rms) 1 Minute (USB 1.0) 500V AC (rms) 1 Minute (USB 2.0)
Insulation resistance	1.000M Ω min. (500V DC)
Contact resistance	30m Ω max.

Others

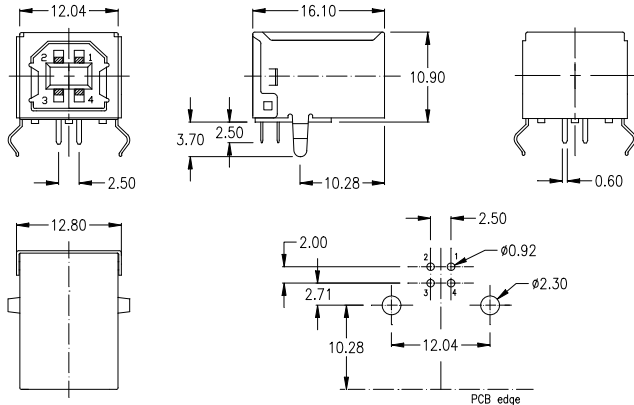
Operating temperature	-55° C to +85° C
Processing temperature	+260° C for 10 sec. max.

USS Series - USB Connector

Type „B”

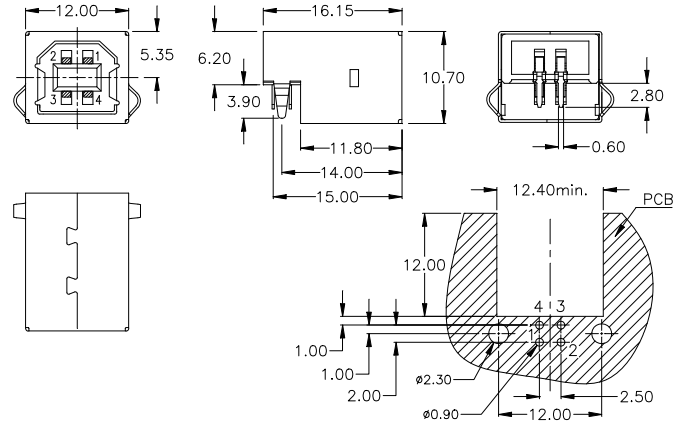


single port right angle; soldertail



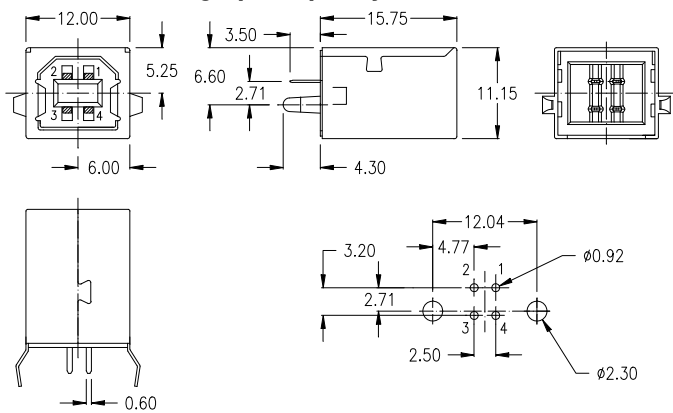
ORDER CODE **1.0 Type: USS - W04 - RB01 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: USS - W04 - RB21 - 98** (- B04 - if black insulator)

“low profile” single port right angle; soldertail



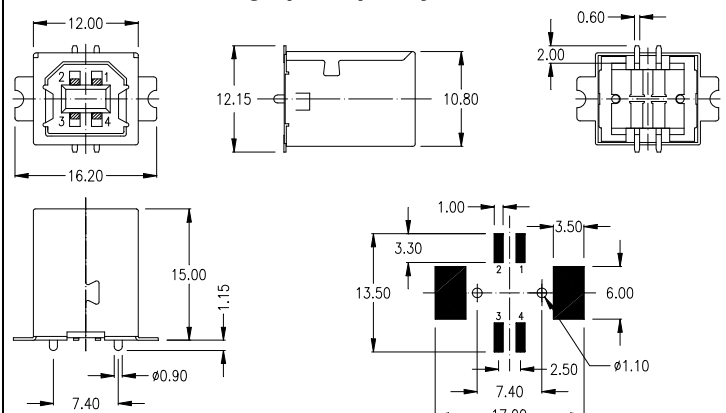
ORDER CODE **1.0 Type: ULS - W04 - RBS0 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: ULS - W04 - RBS2 - 98** (- B04 - if black insulator)

single port top entry; soldertail



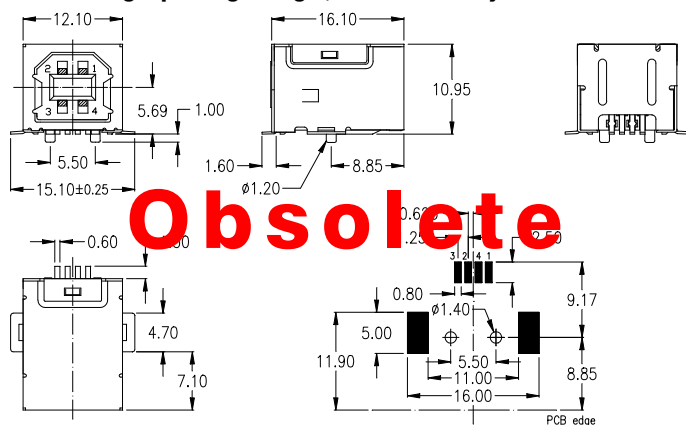
ORDER CODE **1.0 Type: USS - W04 - TB01 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: USS - W04 - TB21 - 98** (- B04 - if black insulator)

single port top entry; SMT



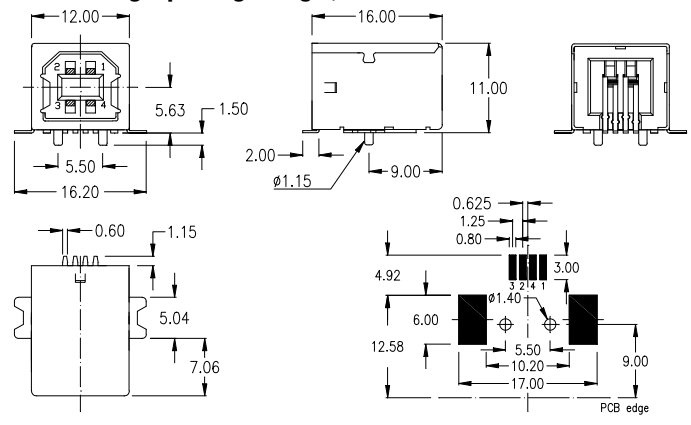
ORDER CODE **1.0 Type: USS - W04 - UB01 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: USS - W04 - UB21 - 98** (- B04 - if black insulator)
 Please contact your closest E-tec sales office for order code if reel packaging is required.

single port right angle; SMT “fully shielded”



ORDER CODE **1.0 Type: USS - W04 - SB01 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: USS - W04 - SB21 - 98** (- B04 - if black insulator)
 Please contact your closest E-tec sales office for order code if reel packaging is required.

single port right angle; SMT “semi shielded”



ORDER CODE **1.0 Type: USS - W04 - SBS0 - 95** (- B04 - if black insulator)
 ORDER CODE **2.0 Type: USS - W04 - SBS2 - 98** (- B04 - if black insulator)
 Please contact your closest E-tec sales office for order code if reel packaging is required.

Specification

Material

Contact	(RoHS compliant)	Phosphor bronze
Plating	solder area:	tin (leadfree) / gold
	contact area:	if -95 = Au flash over Ni (1.0 Type)
		if -98 = Au 30μ" over Ni (2.0 Type)
Insulator	(RoHS compliant)	PBT white (standard) UL 94-V0
		(PBT black on request)
SMT Insulator	(RoHS compliant)	Nylon UL 94-V0
Shell	(RoHS compliant)	brass, 80μ"-120μ" Ni plated

Mechanical

Mating cycles 1.500 min.

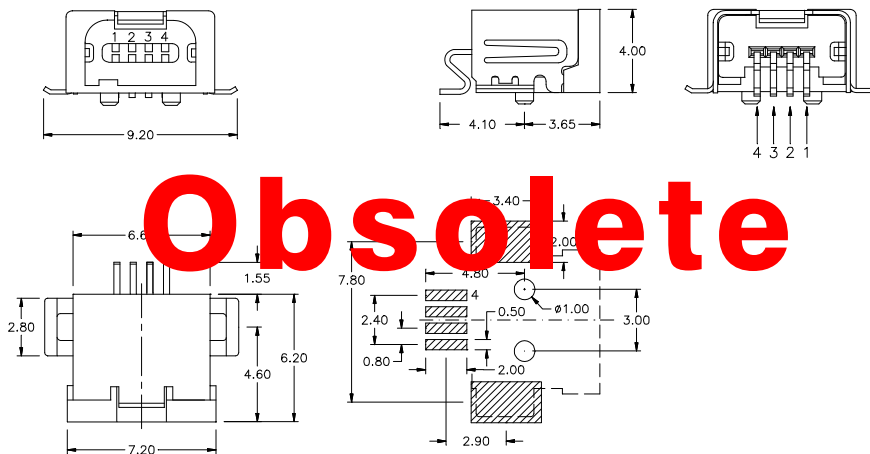
Electrical

Current rating	1,5 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	750V AC (rms) 1 Minute (USB 1.0)
	500V AC (rms) 1 Minute (USB 2.0)
Insulation resistance	1.000MΩ min. (500V DC)
Contact resistance	30mΩ max.

Others

Operating temperature	-55° C to +85° C
Processing temp. for SMT type	+260° C for 10 sec. max.

Mini "A" Type 4 Pin



ORDER CODE **USB 1.0** corresponding:

UMS - B04 - SAS0 - 95

Please contact your closest E-tec sales office for order code if reel packaging is required.

Specification:

Material

Contact (RoHS compliant)	PhBz
Plating:	
Contact area	Au flash over Ni
Solder area	Sn (leadfree) over Ni
Housing (RoHS compliant)	Nylon 6T black UL 94-V0
Shell (RoHS compliant)	Steel, 80µ"-120µ" Ni plated

Electrical

Current rating	1 A
Voltage rating	AC 30V (rms)
Withstanding voltage	100V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	50mΩ max.

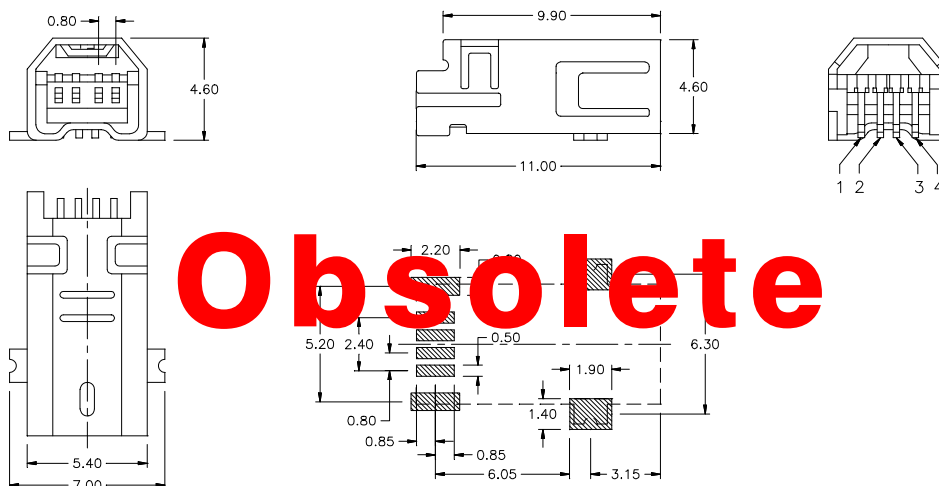
Mechanical

Mating cycles	5,000 min.
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Others

Operating temp.	-55° C to +85° C
Processing temp.	+260° C for 10 sec. max.

Mini "B" Type 4 Pin



ORDER CODE **USB 1.0** corresponding:

UMS - B04 - SBS0 - 95

ORDER CODE **USB 2.0** corresponding:

UMS - B04 - SBS2 - 98

Please contact your closest E-tec sales office for order code if reel packaging is required.

Specification:

Material

Contact (RoHS compliant)	PhBz
Plating:	
Contact area	-95 = Au flash over Ni -98 = Au 30µ" over Ni
Solder area	tin (leadfree) over nickel
Housing (RoHS compliant)	Nylon 6T black UL 94-V0
Shell (RoHS compliant)	brass, Sn plated

Electrical

Current rating	1 A
Voltage rating	AC 30V (rms)
Withstanding voltage	100V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	50mΩ max.

Mechanical

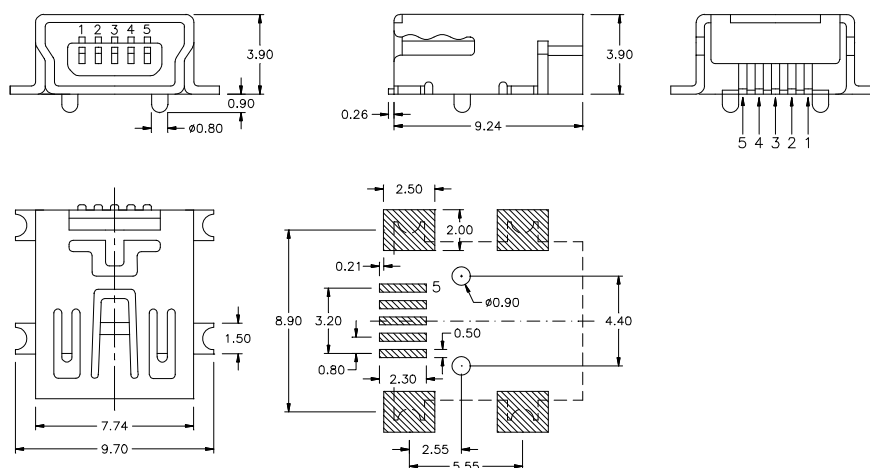
Mating cycles	5,000 min.
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Others

Operating temp.	-55° C to +85° C
Processing temp.	+260° C for 10 sec. max.

Mini "B" Type 5 Pin

correspond to USB 2.0



ORDER CODE **USB 2.0** corresponding:

UMS - B05 - SB21 - 98

Please contact your closest E-tec sales office for order code if reel packaging is required.

Specification:

Material

Contact (RoHS compliant)	PhBz
Plating:	
Contact area	-98 = Au 30µ" over Ni
Solder area	Sn (leadfree) over Ni
Housing (RoHS compliant)	Nylon 6T black UL 94-V0
Shell (RoHS compliant)	Steel, 80µ"-120µ" Ni plated

Electrical

Current rating	1 A
Voltage rating	AC 30V (rms)
Withstanding voltage	100V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	50mΩ max.

Mechanical

Mating cycles	5,000 min.
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Others

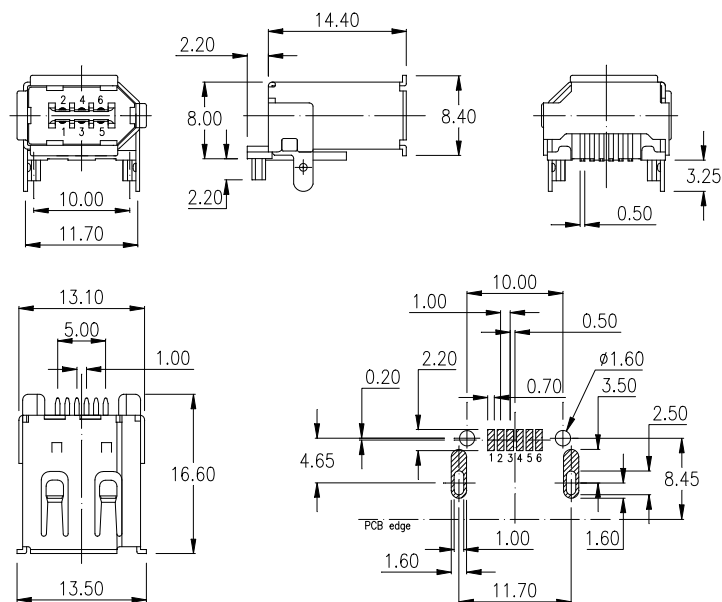
Operating temp.	-55° C to +85° C
Processing temp.	+260° C for 10 sec. max.

IES Series - „IEEE 1394” Connector

6 – Contact Type

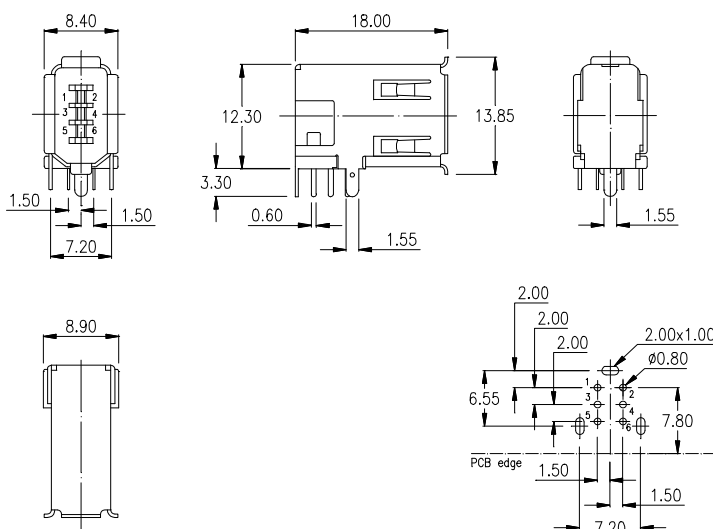


single port right angle; SMT
“fully shielded” Type



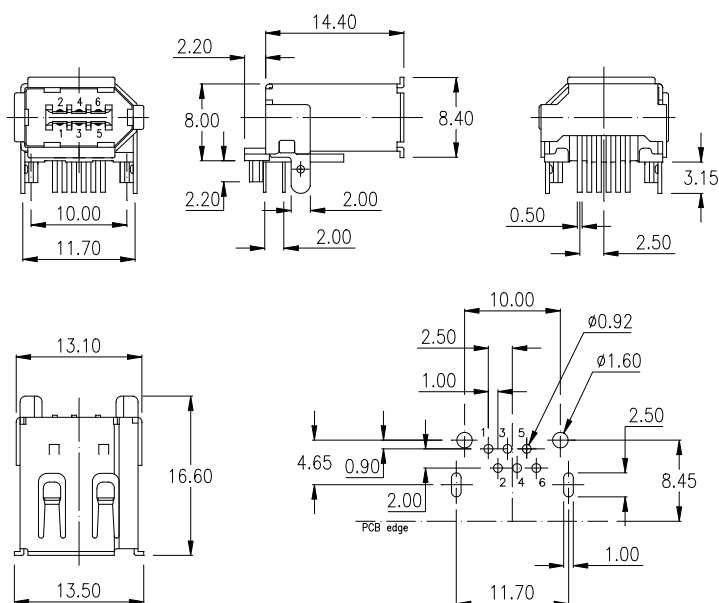
ORDER CODE: **IES - B06 - SIF1 - 98**
(- W06 - if white housing)

single port vertical; soldertail
“fully shielded” Type



ORDER CODE: **IES - B06 - VIF1 - 98**
(- W06 - if white housing)

single port right angle; soldertail
“fully shielded” Type



ORDER CODE: **IES - B06 - RIF1 - 98**
(- W06 - if white housing)

Specification

Material

Contact	(RoHS compliant)	Phosphor bronze
Plating:		
Contact area		Au 30μ" over Ni
Solder area		Sn (leadfree)
Housing	(RoHS compliant)	PBT UL 94-V0
SMT housing	(RoHS compliant)	Nylon 9T UL 94-V0
Shell	(RoHS compliant)	brass, 80μ"-120μ" Ni plated

Mechanical

Mating cycles	1.500 min.
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Electrical

Current rating	1,5 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	500V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	30mΩ max.

Others

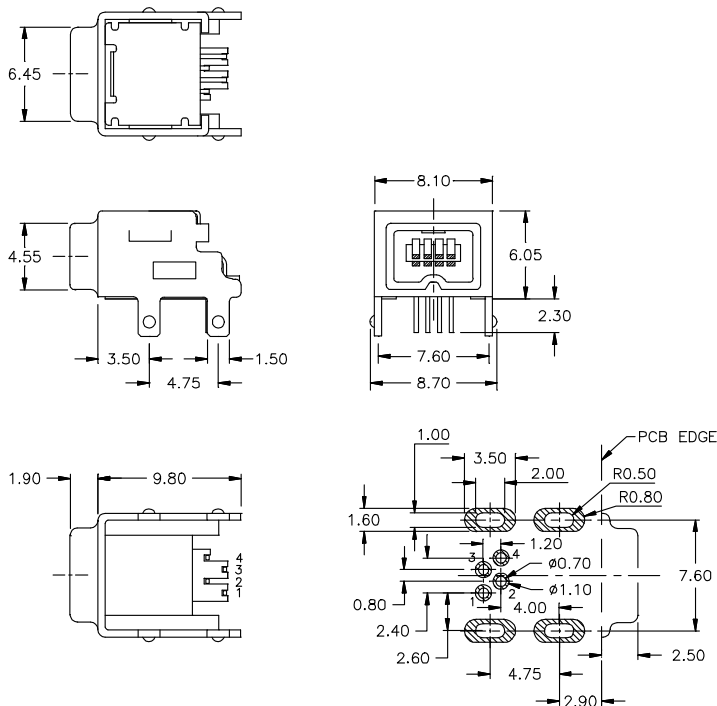
Operating temperature	-55° C to +85° C
Processing temp. for SMT type	+260° C for 10 sec. max.

IES Series - „IEEE 1394” Connector

4 – Contact Type

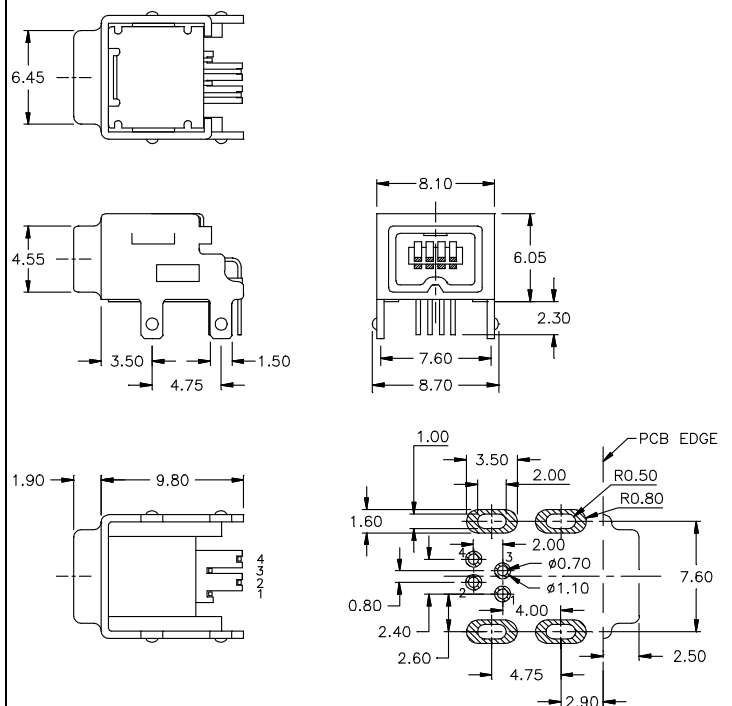


single port right angle



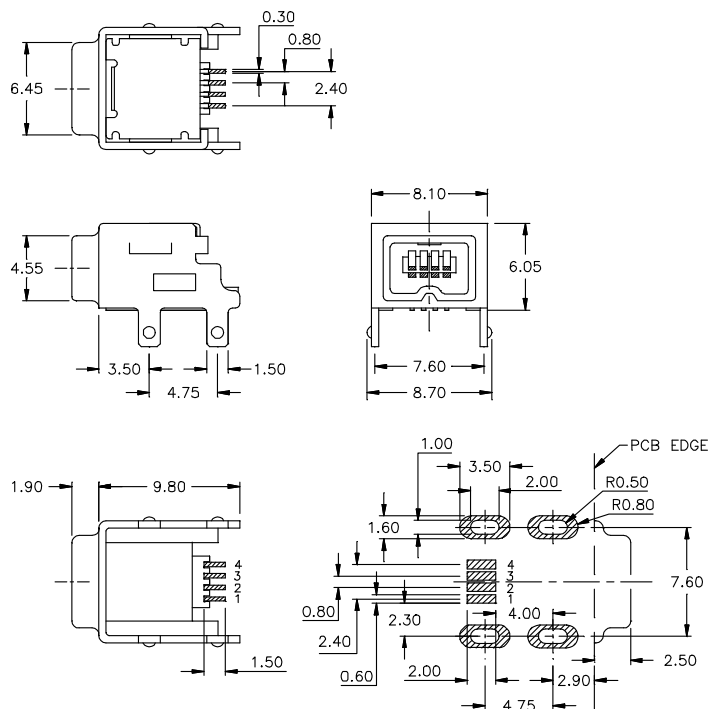
ORDER CODE: **IES - B04 - RI01 - 98**

single port right angle
“reversed” Type



ORDER CODE: **IES - B04 - RIR1 - 98**

single port right angle; SMT



ORDER CODE: **IES - B04 - SI01 - 98**

Specification

Material

Contact	(RoHS compliant)	Phosphor bronze
Plating:		
Contact area		Au 30μ" over Ni
Solder area		Sn (leadfree)
Housing	(RoHS compliant)	Nylon 9T UL 94-V0 black (standard)
Front Shell	(RoHS compliant)	Steel 80μ"-120μ" Ni plated
Rear Shell	(RoHS compliant)	Brass 80μ"-120μ" Ni plated

Mechanical

Mating cycles	1.000 min.
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Electrical

Current rating	1,5 A max. 1 Contact (Signal only)
Voltage rating	30V AC (rms)
Withstanding voltage	500V AC (rms) 1 Minute
Insulation resistance	100MΩ min. (500V DC)
Contact resistance	30mΩ max.

Others

Operating temperature	-55° C to +85° C
Processing temp. for SMT type	+260° C for 10 sec. max.

	Order Code: USC-xxxx-AMAM-BG/G
	Order Code: USC-xxxx-AMAF-BG/G
	Order Code: USC-xxxx-2AMBM-BG/G
	Order Code: USC-xxxx-BMBM-BG/G
	Order Code: USC-xxxx-1MIM-CH/G
	Order Code: USC-xxxx-1M4IM-CH/B
	Order Code: USC-xxxx-4IMIM-CH/G
	Order Code: USC-xxxx-4AMAM-CH/G
	Order Code: USC-xxxx-4BMBM-CH/G
	Order Code: USC-xxxx-5BMBM-CH/G

Other Cable and Connector colour on request.

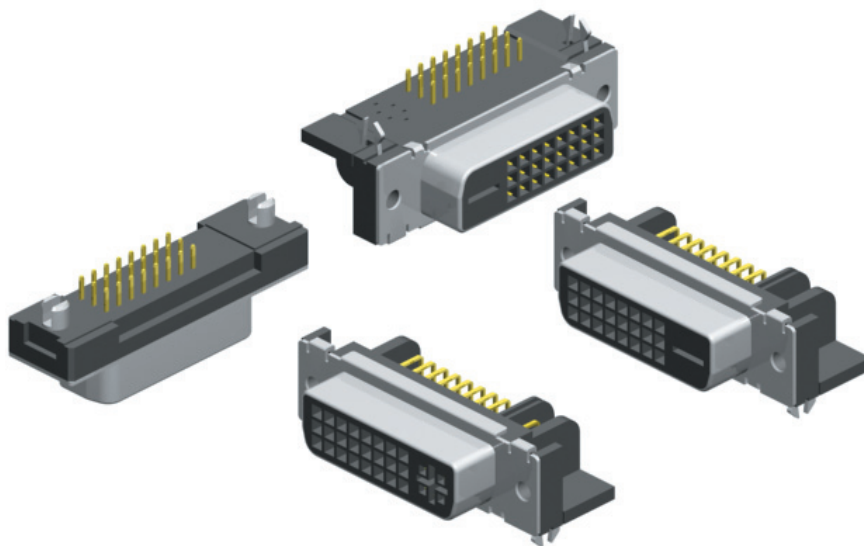
Connector and cable assembly as per Customer specification also possible.

Cable length "L"

Example: **1000** = 1000mm

DVI

Digital Visual Interface

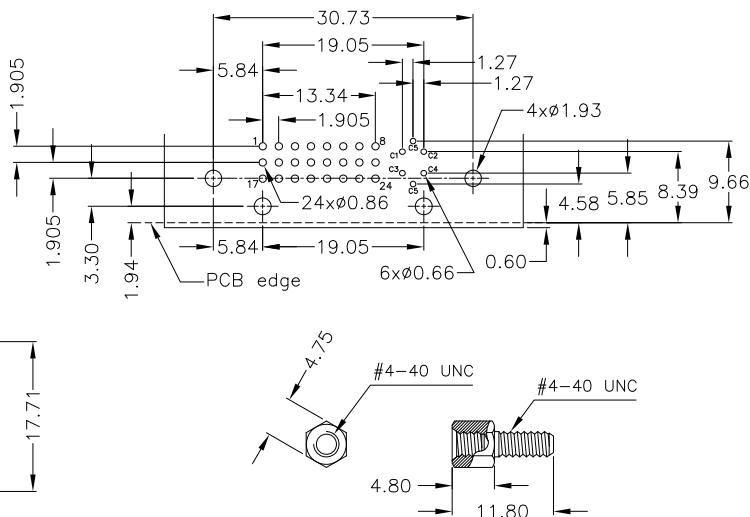
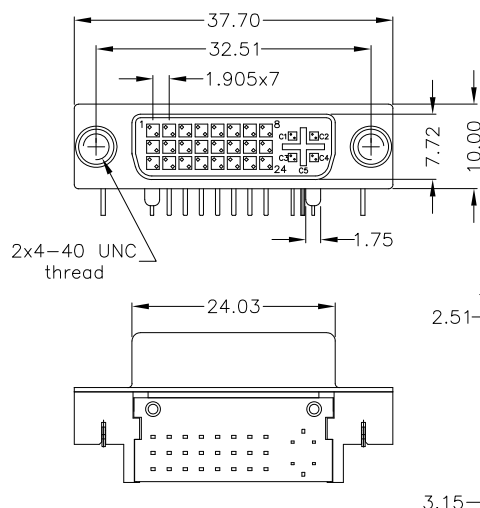


DVI is a video interface standard designed to maximise the visual quality of digital display devices such as flat panel LCD computer displays and digital projectors.

In addition, certain TV's also offer a DVI input connection, which accept digital signals from PC's or DVD players.

Analog & Digital Type

with plastic pegs



Option: Jack Screw

Specifications

Electrical:	
Current rating	1.5 A min.
Insulator resistance	1000 M Ω min.
Contact resistance	20 m Ω max.
Dielectric strength	1000 V for 1 Min.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-20° C to +85° C
Mechanical:	
Insertion force	4.5 Kg max.
Withdrawal force	1.0 Kg min.
Durability	100 Cycles
Material:	
Contact	Copper Alloy
Insulator	Hi temp Thermoplastic
Shell	UL 94V-0
	Steel; Sn (<i>leadfree</i>) over Ni

How to order

DVF - 029 - NAD9 - **xx** /W P X

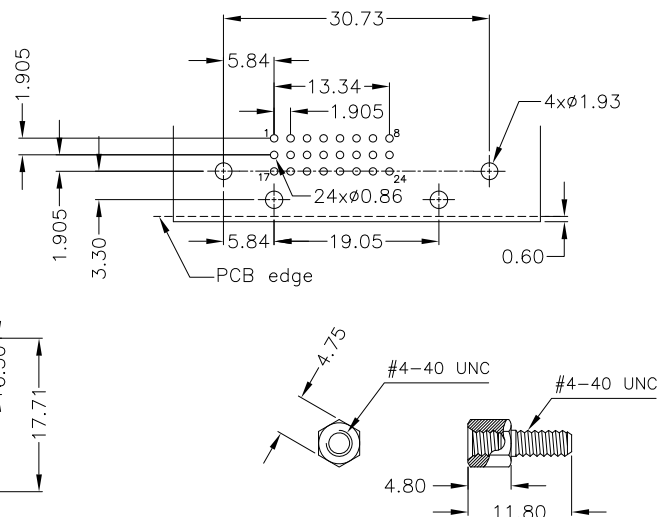
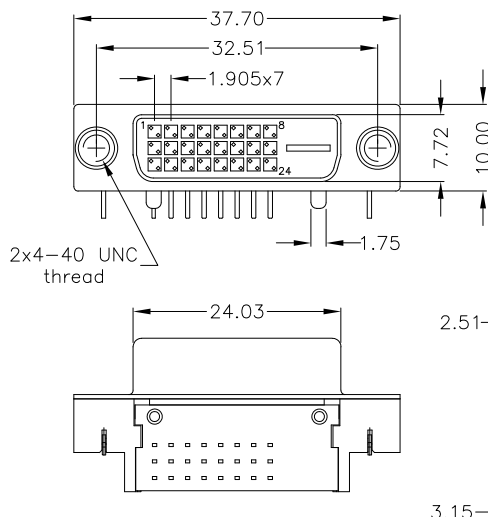
Plating	
95	= Gold flash / Tin (<i>leadfree</i>)
97	= Gold 15 μ " / Tin (<i>leadfree</i>)
98	= Gold 30 μ " / Tin (<i>leadfree</i>)

Housing Color	
W	= white (standard)
B	= black (option)

Option	
J	
2 Jack Screws 4-40 UNC attached	

Digital Type

with plastic pegs



Option: Jack Screw

Specifications

Electrical:	
Current rating	1.5 A min.
Insulator resistance	1000 M Ω min.
Contact resistance	20 m Ω max.
Dielectric strength	1000 V for 1 Min.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-20° C to +85° C
Mechanical:	
Insertion force	4.5 Kg max.
Withdrawal force	1.0 Kg min.
Durability	100 Cycles
Material:	
Contact	Copper Alloy
Insulator	Hi temp Thermoplastic
Shell	UL 94V-0
	Steel; Sn (<i>leadfree</i>) over Ni

How to order

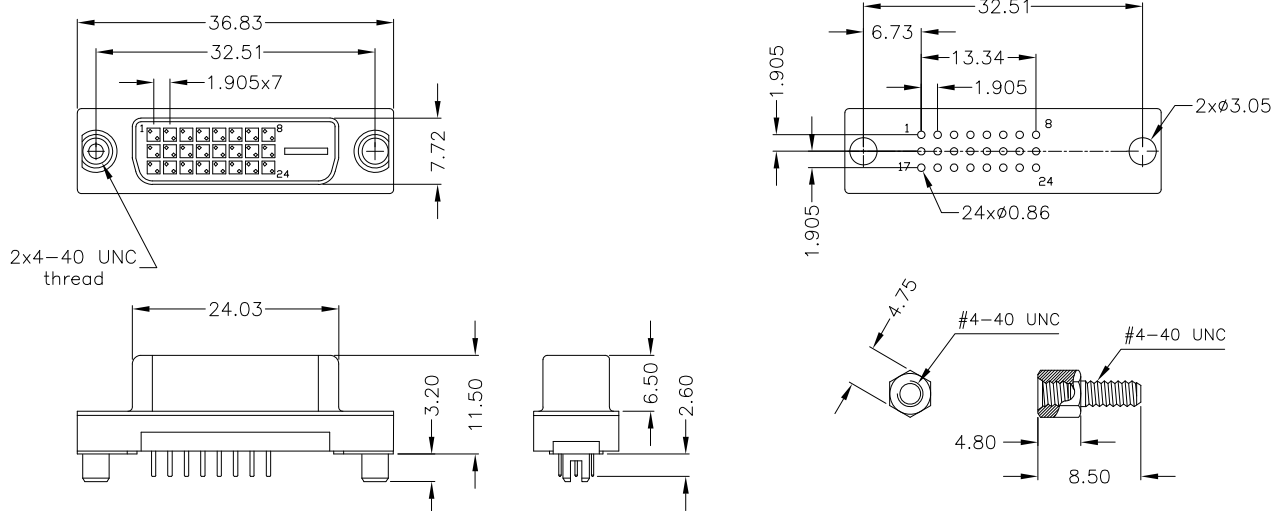
DVF - 024 - NDD9 - **xx** /W P X

Plating	
95	= Gold flash / Tin (<i>leadfree</i>)
97	= Gold 15 μ " / Tin (<i>leadfree</i>)
98	= Gold 30 μ " / Tin (<i>leadfree</i>)

Housing Color	
W	= white (standard)
B	= black (option)

Option	
J	
2 Jack Screws 4-40 UNC attached	

DV Series DVI Connector - straight - Digital



Jack Screw

Specifications

Electrical:	
Current rating	1.5 A min.
Insulator resistance	1000 M Ω min.
Contact resistance	20 m Ω max.
Dielectric strength	1000 V for 1 Min.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-20° C to +85° C
Mechanical:	
Insertion force	4.5 Kg max.
Withdrawal force	1.0 Kg min.
Durability	100 Cycles
Material:	
Contact	Copper Alloy
Insulator	Hi temp Thermoplastic
Shell	UL 94V-0
	Steel; Sn (<i>leadfree</i>) over Ni

How to order

DVF - 024 - NDD1 - *xx* /W B J

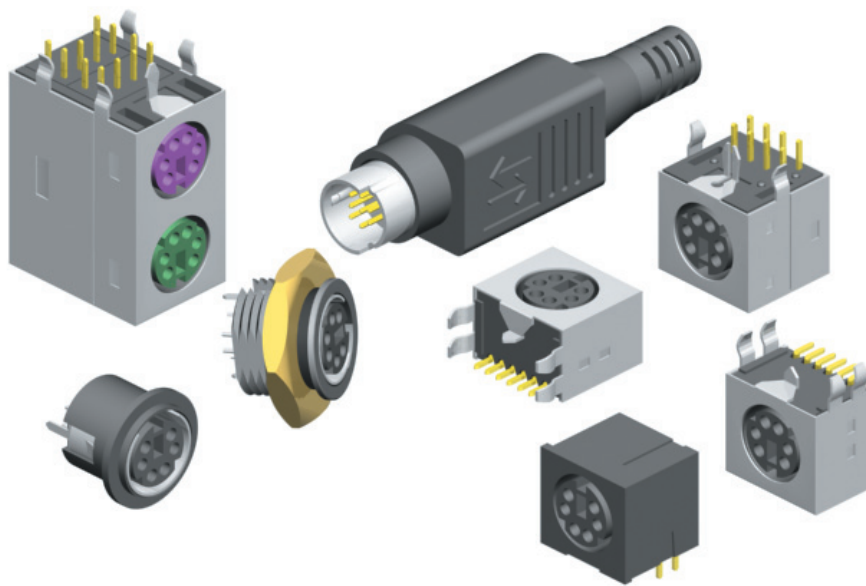
Plating	
95	= Gold flash / Tin (<i>leadfree</i>)
97	= Gold 15 μ " / Tin (<i>leadfree</i>)
98	= Gold 30 μ " / Tin (<i>leadfree</i>)

Housing Color	
W	= white (standard)
B	= black (option)

J	
2 Jack Screws 4-40 UNC attached	

Mini DIN

Connectors



Mini DIN Connectors for Computer, Video, Audio
and Digital Equipment applications.

Single and Dual Port, non shielded and shielded connector versions
are available together with the mating plugs.

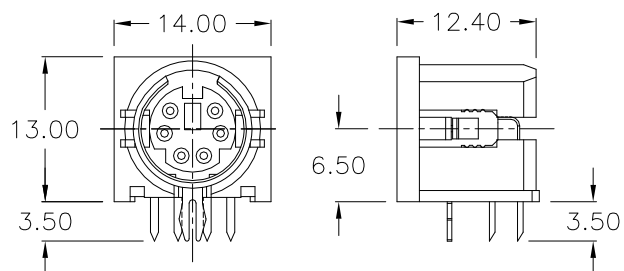
Mini DIN Connector - 90° non shielded type



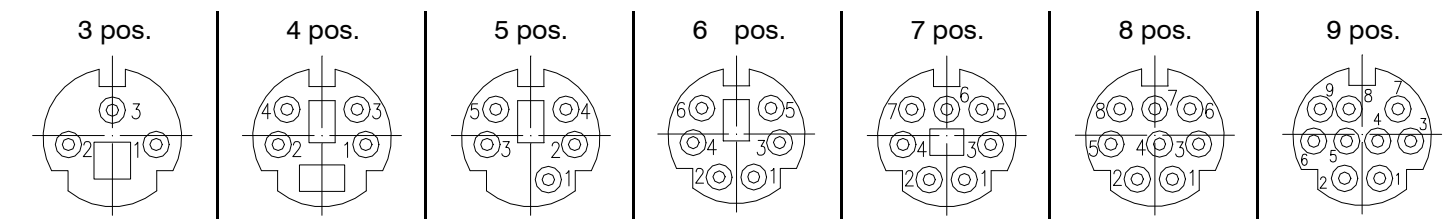
Mini DIN Connectors offered by E-tec have either silver or tin plated contacts. They allow a high number of insertion/extraction cycles and always a save connection to the Plug.

For any other types you may looking for and cannot find specified in this catalog, for example Mini DIN connectors with Filter or switch, please contact the nearest E-tec office or Distributor.

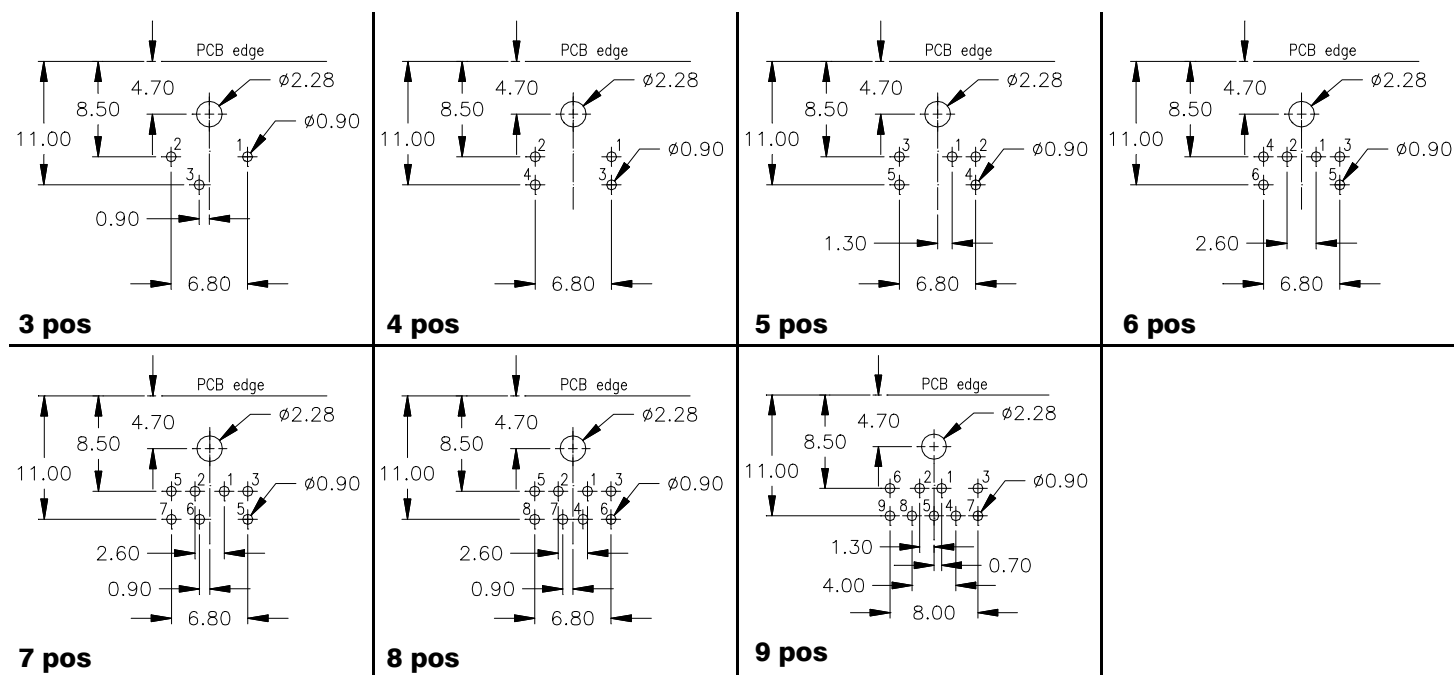
non shielded type



FRONT VIEWS



PCB through hole layout



SPECIFICATIONS

Current rating	1 A max. at 100 V AC or 2 A max. at 12 V DC	Contact material (RoHS compliant)	Phosphor bronze
Insulator resistance	50 MΩ min. at 250 V DC	Contact plating	Sn/Au over Ni (Sn leadfree)
Contact resistance	30 mΩ max.	Insulator material (RoHS compliant)	P.B.T. UL 94 V-0
Dielectric withstanding voltage	250 V AC for 1 min.	Insertion force	4.5kg max.
Operating temperature	-55°C to +85°C	Extraction force	0.8kg min.
		Insertion/extraction cycles	500 min.

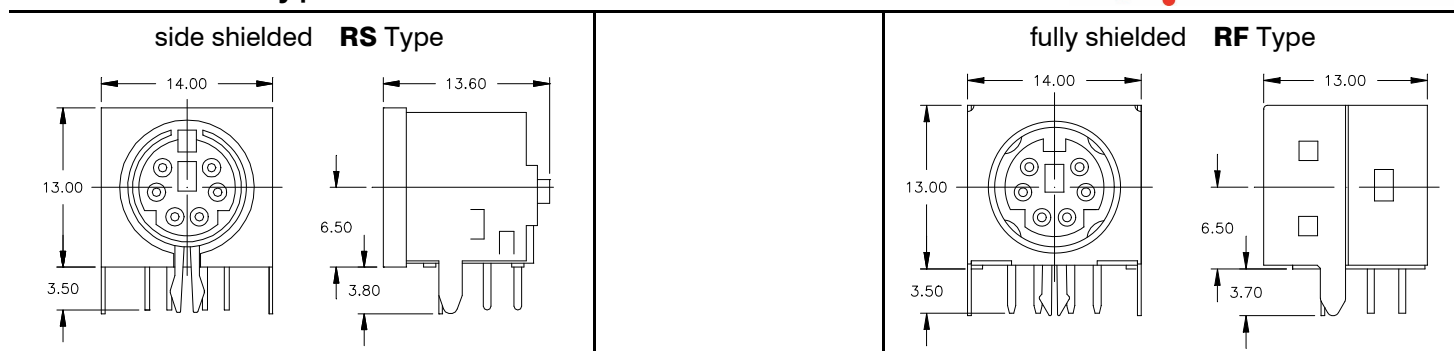
Ordering Code

MDJ - xxx - RN 01 - 95

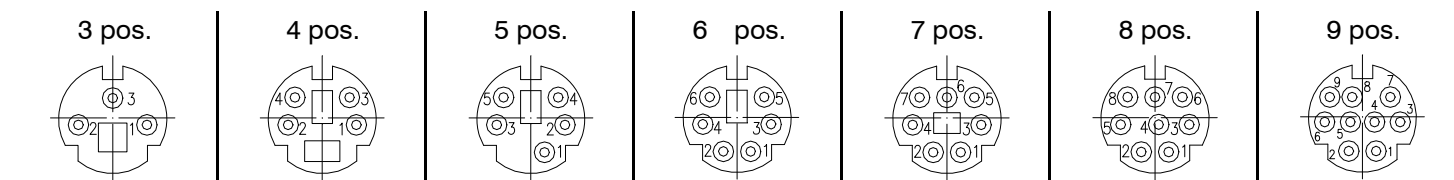
Nbr of contacts		
003	to	009

Mini DIN Connector

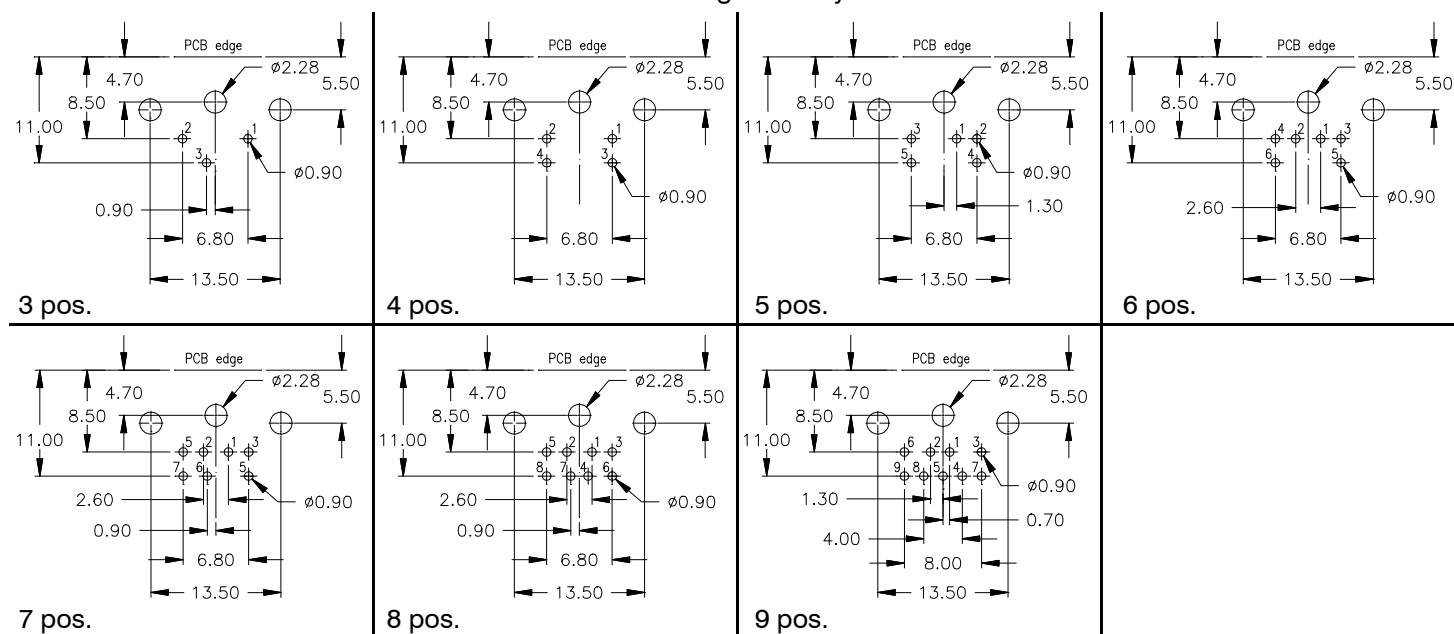
90° shielded type



FRONT VIEWS



PCB through hole layout



SPECIFICATIONS

Current rating	1 A max. at 100 V AC or	Contact material	(RoHS compliant) Phosphor bronze
2 A max. at 12 V DC		Contact plating	AG, Sn or Sn/Au over Ni (Sn leadfree)
Insulator resistance	50 MΩ min. at 250 V DC	Insulator material	(RoHS compliant) P.B.T. UL 94 V-0 -black standard -
Contact resistance	30 mΩ max.	Insertion force	4.5kg max.
Dielectric withstanding voltage	250 V AC for 1 min.	Extraction force	0.8kg min.
Operating temperature	-40°C to +105°C	Insertion/extraction cycles	500 min.

Ordering Code

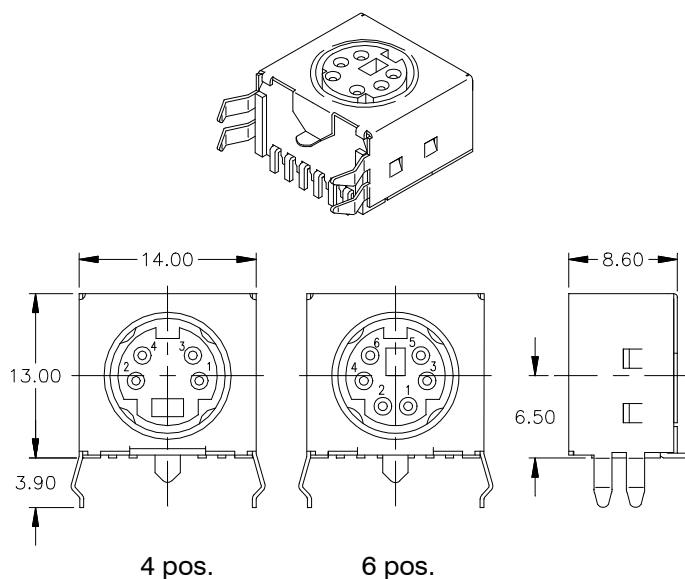
MDJ - xxx - R X xx - xx

Nbr of contacts	Type	Color	Plating
003; 004; 005; 006 007; 008; 009	S = side shielded	01 = black	AGZ = silver
003; 004; 005; 006 007; 008; 009	F = fully shielded	01 = black for all types 22 = purple for 6-contact type only	95 = tin/gold (tin leadfree)

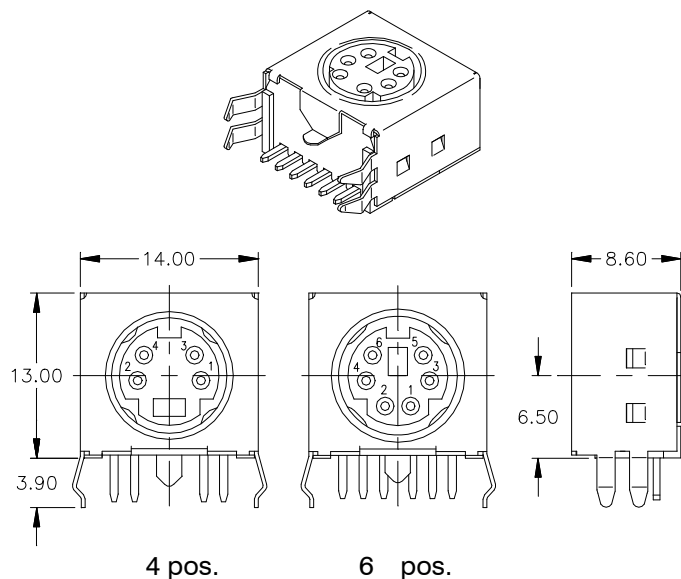
Mini DIN Connector - Low Profile 90° SMT & through hole - fully shielded type -



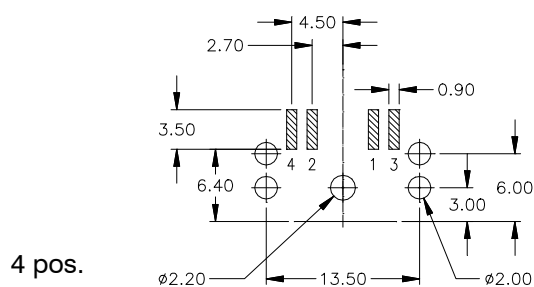
SMT type



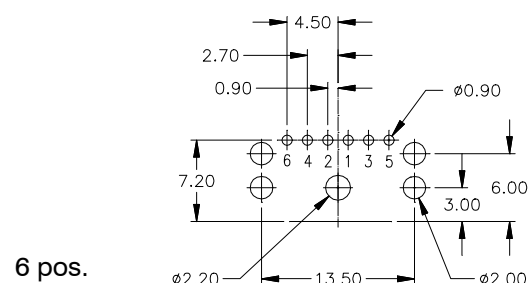
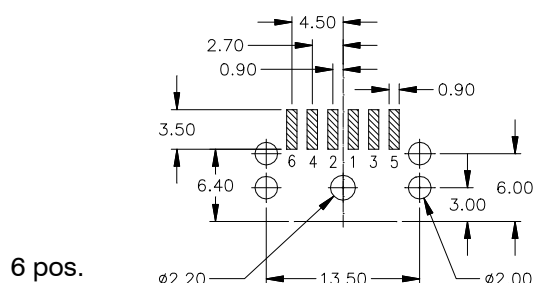
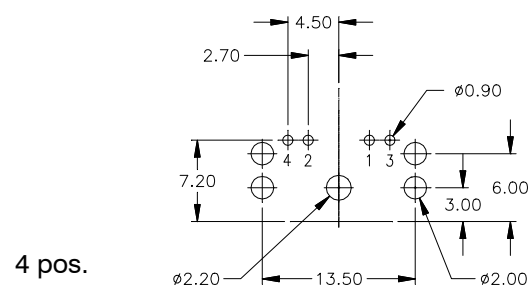
through hole type



PCB SMT layout



PCB through hole layout



SPECIFICATIONS

Current rating	1 A max. at 100 V AC or 2 A max. at 12 V DC
Insulator resistance	50 MΩ min. at 250 V DC
Contact resistance	30 mΩ max.
Dielectric withstanding voltage	250 V AC for 1 minute
Insertion/extraction cycles	500 min.
Operating temperature	-40°C to +105°C

Insulator material (RoHS compliant)	Nylon 6T UL 94 V-0
Contact material (RoHS compliant)	Phosphor bronze
Contact plating	Sn(leadfree)/Au over Ni
Insertion force	4.5kg max.
Extraction force	0.5kg min.
Reflow soldering temperature:	260° C for 10 sec.

Ordering Code

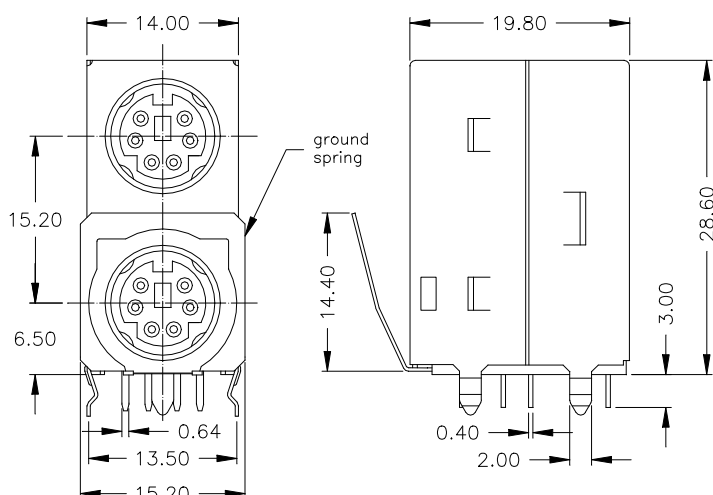
MDJ - xxx - RKL X / 1 - 95

Nbr of contacts	Types	Housing Color
004 & 006	S = SMT type T = through hole type (Reflow compatible "pin in paste")	1 = black Options: 0 = green 2 = purple

Mini DIN Connector - Dual Port Standard & "PC 99" Type

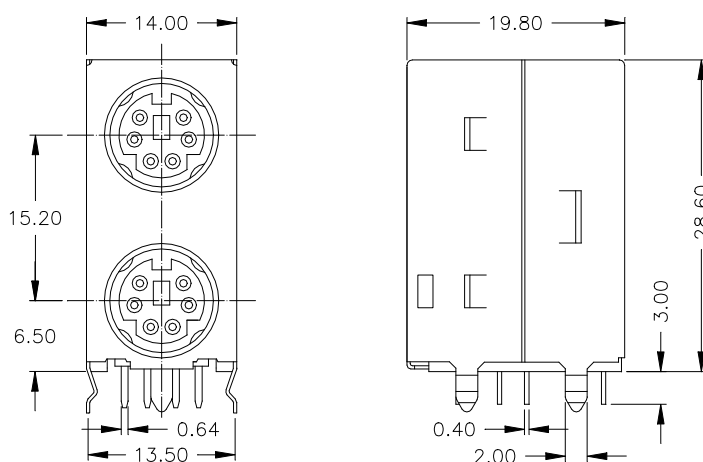


fully shielded, ground spring & side kink type



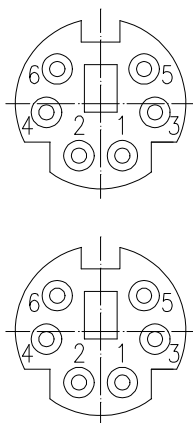
MDJ - 606 - DS xx - 95

fully shielded type



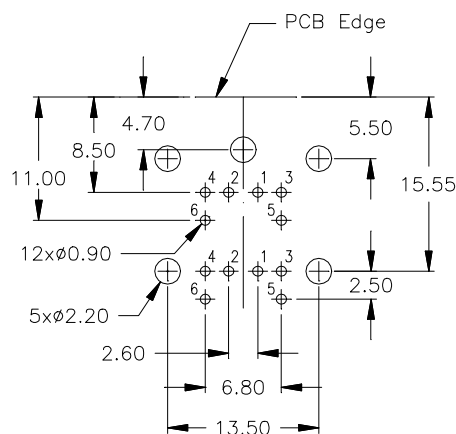
MDJ - 606 - DK xx - 95

front view



2 x 6 pos.

PCB through hole layout



2 x 6 pin = 606

SPECIFICATIONS

Current rating	1 A max. at 100 V AC or 2 A max. at 12 V DC
Insulator resistance	100 MΩ min. at 250 V DC
Contact resistance	30 mΩ max.
Withstanding voltage	250 V AC for 1 min.

Contact material	(RoHS compliant) Phosphor bronze
Insulator material	(RoHS compliant) P.B.T. UL 94 V-0
Shield material	(RoHS compliant) Brass
Shield plating	tin (leadfree)
Insertion/extraction cycles	500 min.
Operating temperature	-40°C to +105°C

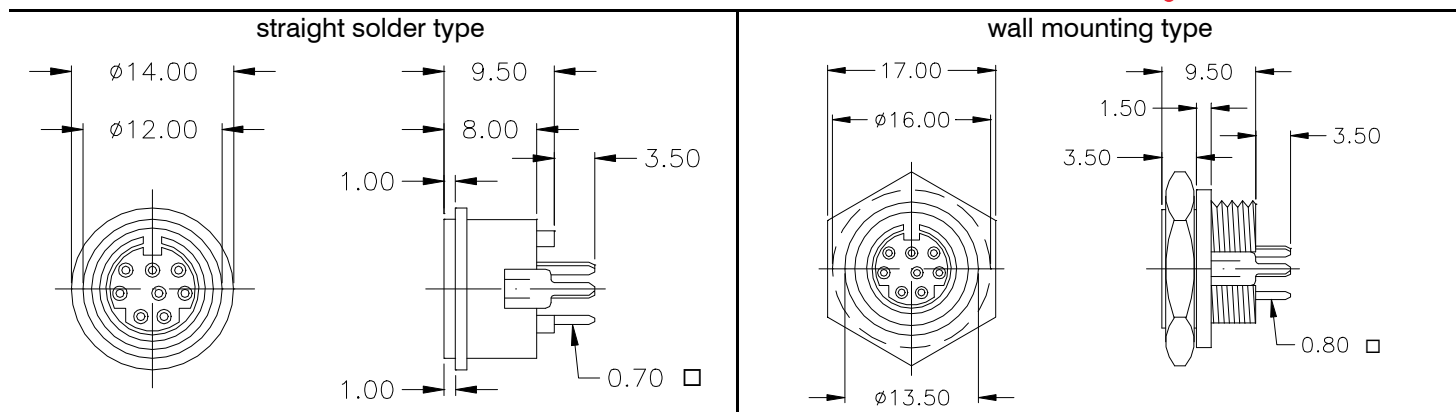
Ordering Code

MDJ - 606 - XX xx - 95

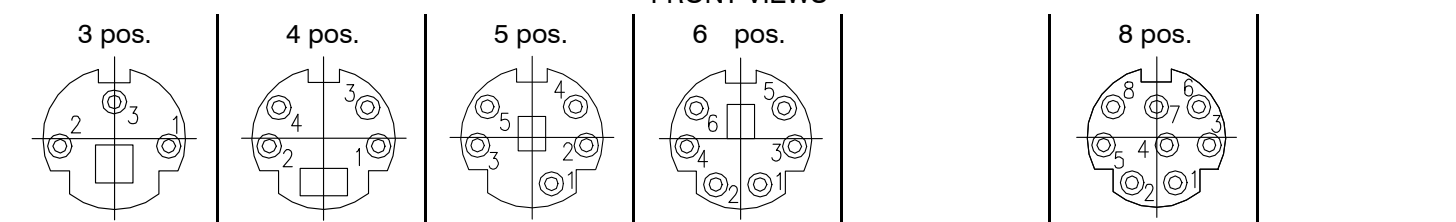
Contact Arrangement	Version	Housing Color	Plating
6 top 6 bottom	DS = fully shielded, ground spring & side kink DK = fully shielded & side kink	01 = black top / black bottom 02 = green top / purple bottom	tin/gold (tin leadfree)

Mini DIN Connector

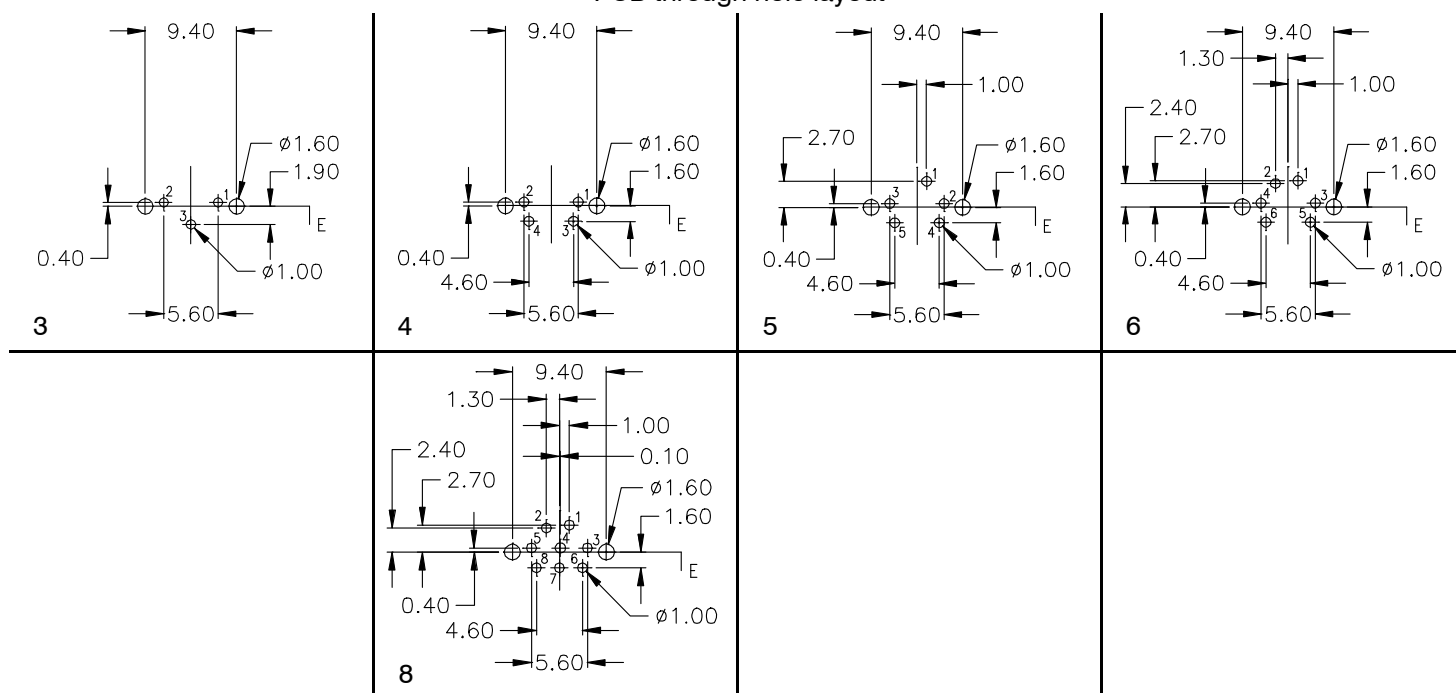
straight & wall mounting type



FRONT VIEWS



PCB through hole layout



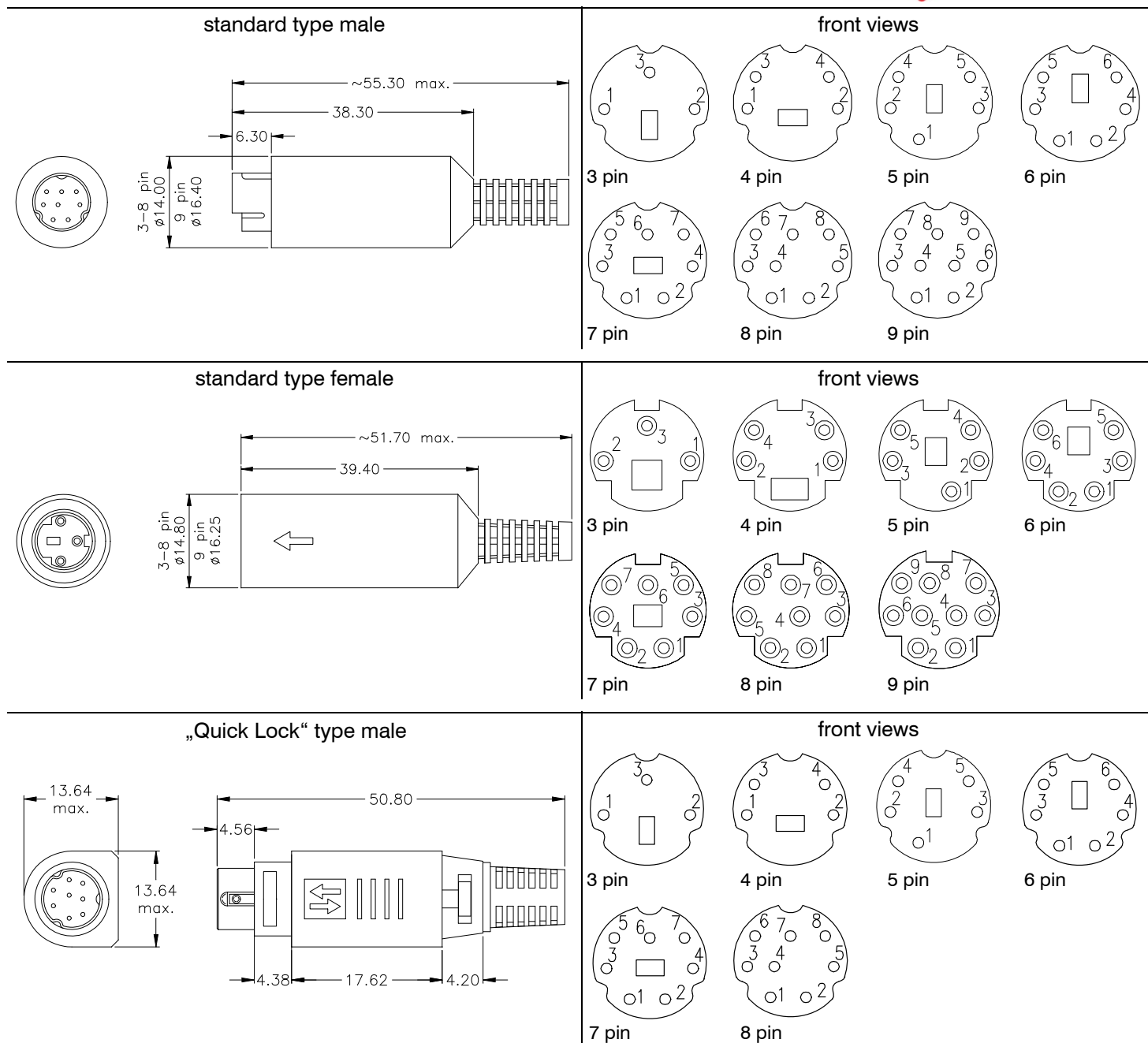
SPECIFICATIONS

Current rating	1 A max. at 100 V AC or 2 A max. at 12 V DC	Contact material (RoHS compliant)	Phosphor bronze
Insulator resistance	50 MΩ min. at 250 V DC	Contact plating	Silver
Contact resistance	30 mΩ max.	Insulator material (RoHS compliant)	P.B.T. UL 94 V-0
Dielectric withstanding voltage	250 V AC for 1 min.	Insertion force	4.5kg max.
Operating temperature	-40°C to +105°C	Extraction force	0.8kg min.
		Insertion/extraction cycles	500 min.

Ordering Code

MDJ - xxx - S X 01 - AGZ

Nbr of contacts	Types
003; 004; 005 006; 008	N = straight solder type S = wall mounting type



Any cable assembly available on request.
Connectors at both ends as well as cable length and quality as per your specification possible.
Please contact the nearest E-tec sales office or Distributor.

SPECIFICATIONS

Current rating	1 A max. at 100 V AC or 2 A max. at 12 V DC	Withstanding voltage	250 V AC for 1 min.	Insulator material (RoHS compliant)	Nylon UL 94 V-0
Insulator resistance	50 MΩ min. at 250 V DC	Operating temperature	-55°C to +85°C	Insertion force	4.5kg max.
Contact resistance	30 mΩ max.	Contact material (RoHS compliant)	Brass	Extraction force	0.8kg min.
		Contact plating	Silver; MQ Type = Gold	Insertion/extraction cycles	500 min.

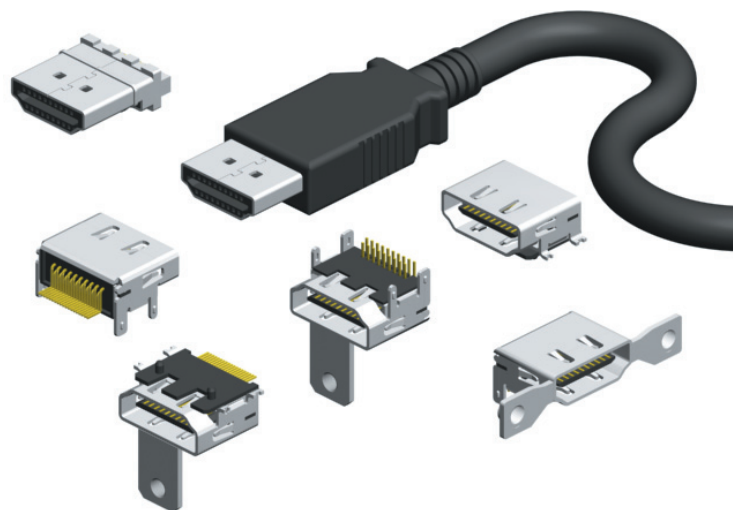
Ordering Code

MDP - xxx - XX 01 - xx

Nbr of contacts	Types	Plating
003 to 009 except MQ Type	MA = male standard FA = female standard MQ = male „Quick Lock“	MA & FA Type: AGZ = silver MQ Type only: 55 = gold

HDMI[®]

High Definition Multimedia Interface



HDMI is an all-digital audio/video interface which was developed in mid 2003 capable of transmitting uncompressed streams. HDMI provides an interface between any compatible digital audio/video source, such as a set-top box, a DVD player, or an AV receiver and a compatible digital audio and/or video monitor, such as a digital television (DTV).

Since June 2006 the version 1.3 has been introduced and these HDMI standards specifically target the home entertainment sector.

with top mounting flange – without locating pins



Option	
R	= reel packing w/o pick up tape
BT	= reel packing with pick up tape

with top mounting flange – with locating pins



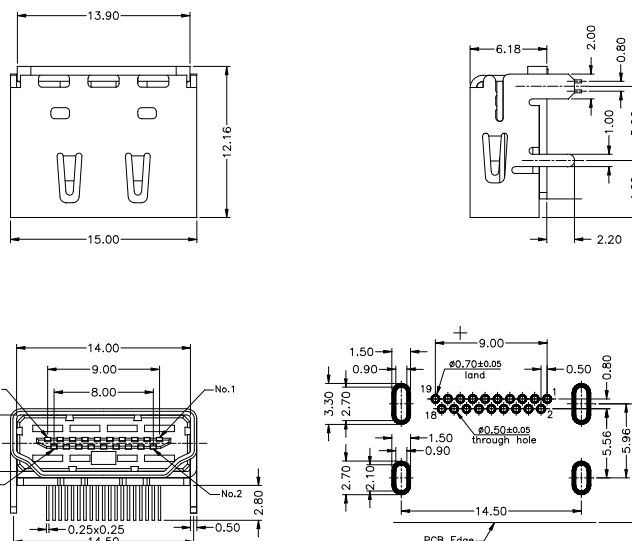
Option
R = reel packing w/o pick up tape
BT = reel packing with pick up tape

HM Series

HDMI Connector



Soldertail Type with "straight" solder pegs - without mounting flange -



Specifications

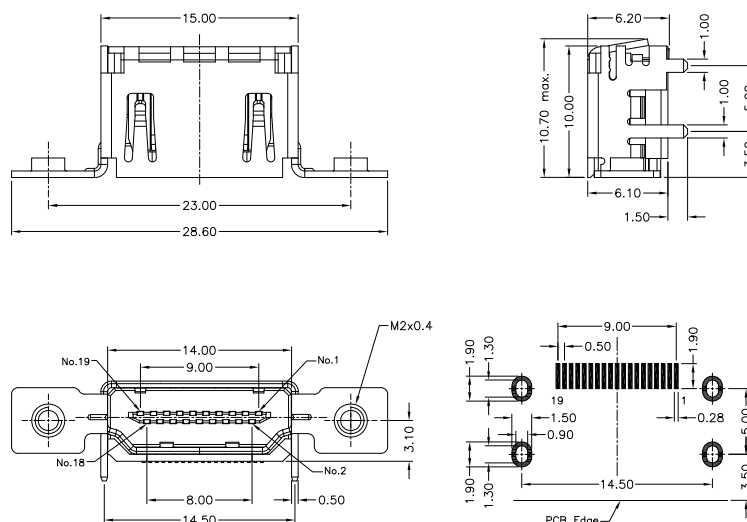
Electrical:	
Current rating	0.5 A
Insulator resistance	100 M Ω min. at 150V DC
Contact resistance	30 m Ω max.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-25° C to +85° C
Mechanical:	
Insertion force	44.1 N max.
Withdrawal force	9.8 N min. / 39.2 N max.
Durability	10,000 Cycles
Material:	
Contact	Copper Alloy
Plating	Sn solderpegs / Au contact
Insulator	Hi temp Thermoplastic black UL 94V-0
Shell	Steel; Sn (leadfree) over Ni

How to order

HMR - B19 - RS X 1 - 98 / X

Style	Plating	Option
K = without mounting flange	95 = Gold flash / Tin (leadfree)	Blank = tray packing (standard)
	97 = Gold 15 μ " / Tin (leadfree)	R = reel packing w/o pick up tape
	98 = Gold 30 μ " / Tin (leadfree)	BT = reel packing with pick up tape
		NOTE: reel packing on request

SM-Type with "straight" solder pegs - with wing mounting flange -



Specifications

Electrical:	
Current rating	0.5 A
Insulator resistance	100 M Ω min. at 150V DC
Contact resistance	30 m Ω max.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-25° C to +85° C
Mechanical:	
Insertion force	44.1 N max.
Withdrawal force	9.8 N min. / 39.2 N max.
Durability	10,000 Cycles
Material:	
Contact	Copper Alloy
Plating	Sn solderpegs / Aucontact
Insulator	Hi temp Thermoplastic black UL 94V-0
Shell	Steel; Sn (leadfree) over Ni

How to order

HMR - B19 - SS X 1 - 98 / X

Style	Plating	Option
M = with wing mounting flange	95 = Gold flash / Tin (leadfree)	Blank = tray packing (standard)
	97 = Gold 15 μ " / Tin (leadfree)	R = reel packing w/o pick up tape
	98 = Gold 30 μ " / Tin (leadfree)	BT = reel packing with pick up tape
		NOTE: reel packing on request

[illegible]

Electrical:	
Current rating	0.5 A
Insulator resistance	100 M Ω min. at 150V DC
Contact resistance	30 m Ω max.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-25° C to +85° C
Mechanical:	
Insertion force	44.1 N max.
Withdrawal force	9.8 N min. / 39.2 N max.
Durability	10.000 Cycles
Material:	
Contact	Copper Alloy
Plating	Sn solderpergs / Au contact
Insulator	Hi temp Thermoplastic black UL 94V-0
Shell	Steel; Sn (<i>leadfree</i>) over Ni

HMR - B19/2 - US M 1 - 98 / X

Style	Plating	Option
M = with wing mounting flange	95 = Gold flash / Tin (<i>leadfree</i>) 97 = Gold 15 μ " / Tin (<i>leadfree</i>) 98 = Gold 30 μ " / Tin (<i>leadfree</i>)	R = reel packing w/o pick up tape BT = reel packing with pick up tape

<u>Electrical:</u>	
Current rating	0.5 A
Insulator resistance	100 M Ω min. at 150V DC
Contact resistance	30 m Ω max.
Withstanding voltage	500V (rms) AC 1 Min.
Operating temperature	-25° C to +85° C
<u>Mechanical:</u>	
Insertion force	44.1 N max.
Withdrawal force	9.8 N min. / 39.2 N max.
Durability	10.000 Cycles
<u>Material:</u>	
Contact	Copper Alloy
Plating	Sn solderpegs / Au contact
Insulator	Hi temp Thermoplastic black UL 94V-0
Shell	Steel; Sn (<i>leadfree</i>) over Ni

HMR - B19/2 - US W 1 - 98 / X

Style	Plating	Option
W = with "L" wing mounting flange	95 = Gold flash / Tin (<i>leadfree</i>) 97 = Gold 15μ" / Tin (<i>leadfree</i>) 98 = Gold 30μ" / Tin (<i>leadfree</i>)	R = reel packing w/o pick up tape BT = reel packing with pick up tape

Other products from E-tec

Please contact your closest sales office for further information.



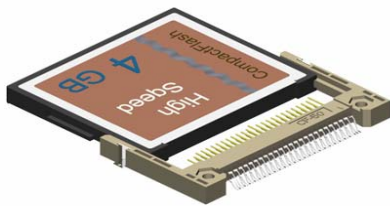
Insertion-Extraction Tools



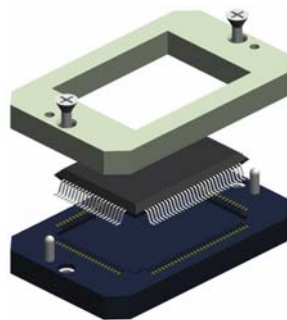
DIMM Sockets



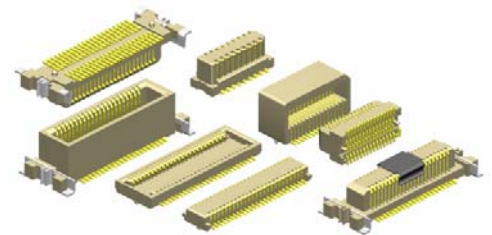
DIP Switch



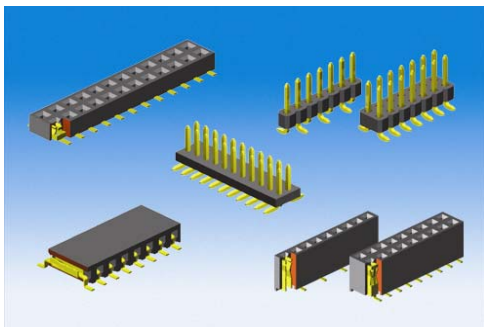
Compact Flash Connector



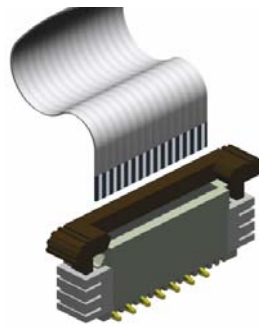
Gullwing Chip Sockets



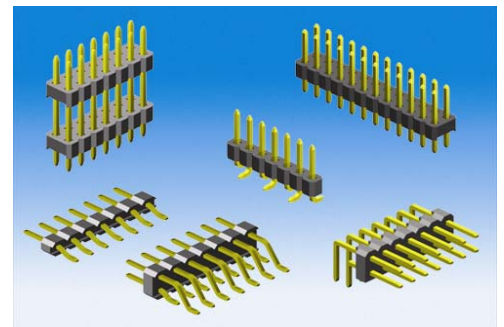
Fine Pitch Board to Board Connectors



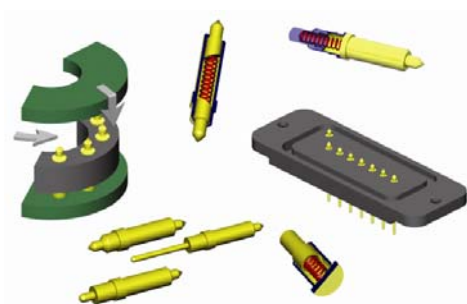
SMT Board to Board Connectors



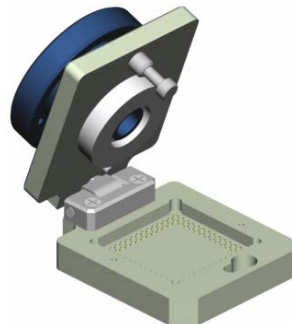
Flex Cable Connectors



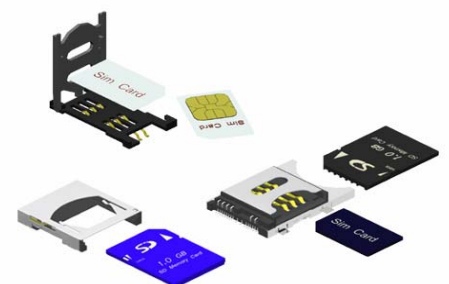
Pin Header



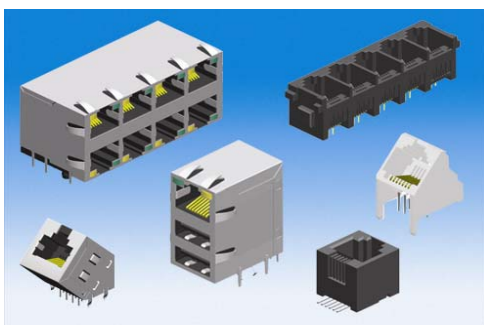
Probe Pin & Probe Pin Connectors



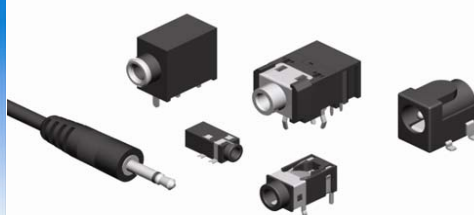
Ball / Land Grid Array Sockets



Multi Media Card Connectors



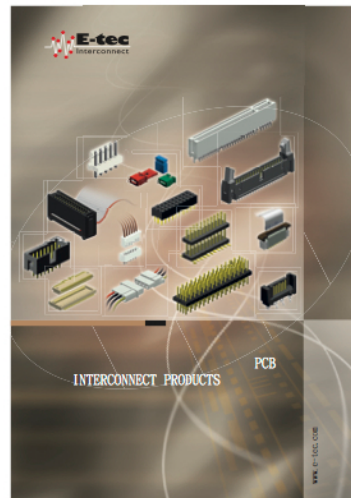
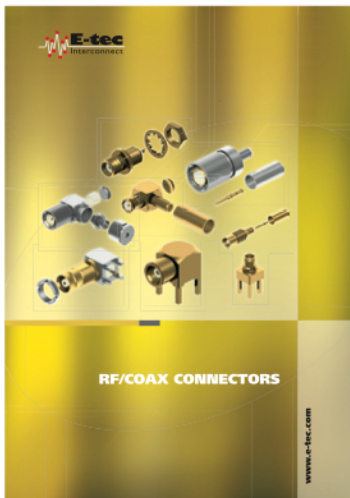
Modular Plugs & Jacks



Phono - & DC - Power Connectors



RF - Connectors



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