Note: All part numbers are RoHS Compliant.

Engineering Notes

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

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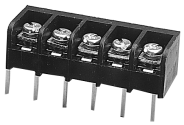
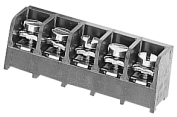
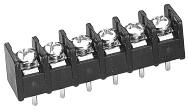
Barrier Strip Selector Chart

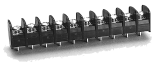
Tri-Barrier

	0.250”	0.325”	0.325”	0.375”	0.375”	0.375”	0.375”	0.4375”
Series	#3	#4	1546927	#6	1546833	BC6	MB6	#8
Pitch (in)	0.250”	0.325”	0.325”	0.375”	0.375”	0.375”	0.375”	0.4375”
Circuits	2-32	2-30	2-8	2-30	2-8	2-16	4-40	2-26
Max Current	10A	25A	15A	25A	15A	20A	25A	30A
Max Voltage	300V	300V	300V	600V	300V	300V	300V	600V
Wire Range (AWG)	18-22	12-22	14-22	12-22	14-22	12-22	12-22	10-18
Description	Molded to length	Molded to length	Molded to length	Molded to length	Molded to length, Modular	Molded to length	Double Level snapped to length	Molded to length
Page	120-123	124-126	127	128-131	132	133-134	135	136-138

Dual-Barrier





	.250”	0.325”	0.325”	0.375”	0.375”	0.4375”
Series	1546657	4DB	1546734	JC6	NC6	SSB7
Pitch (in)	.250”	0.325”	0.325”	0.375”	0.375”	0.4375”
Circuits	2-30	2-30	2-16	2-16	2-30	2-27
Max Current	10A	20A	20A	20A	20A	20A
Max Voltage	300V	150V/ 300V	300V	300V	300V	600V
Wire Range (AWG)	16-30	14-22	12-22	12-22	12-22	12-26
Description	Molded to length	Molded to length	High Rise, Molded to length	Molded to length	Low Profile version, Molded to length	Cut to length
Page	141-142	143-144	145-146	147-148	149-150	151-154

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Note: All part numbers are RoHS Compliant.

Barrier Strip Selector Chart (Continued)

Double Row

	0.374”	0.433”	0.437”	0.563”	
Series	1546306 1546307	1546481 1546477	1546670 1546671	1546310 1546311	1776544 1986158
Pitch (in)	0.374”	0.433”	0.437”	0.563”	0.563”
Circuits	2-30	2-26	2-26	2-18	2-18
Max Current	20A	25A	25A	30A	30A
Max Voltage	300V	300V	300V	300V	600V
Wire Range (AWG)	12-22	14-22	14-22	10-22	10-22
Description	Panel Mount, molded to length	Panel Mount, molded to length	Panel Mount, molded to length	Panel Mount, molded to length	Panel Mount, molded to length
Page	156	157	158	159	160

Sockets and Barrier Strips

	0.325”	0.325”	0.325”	0.375”	0.375”
Series	USB	RSB3	SSB3	RSB6B	RSB6
Pitch (in)	0.325”	0.325”	0.325”	0.375”	0.375”
Circuits	2-12	2-36	2-36	2-10	2-36
Max Current	10A	15A	15A	10A	20A
Max Voltage	300V	300V	300V	300V	300V
Wire Range (AWG)	n/a	14-26	14-26	n/a	12-26
Description	For Series RSB3 & SSB3	Cut to length	Cut to length	For Series RSB6	Cut to length
Page	162	164-166	168-170	163	171-173

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Note: All part numbers are RoHS Compliant.

Catalog Number Code

SSB 3 F P 06 02 02 11 AA

Type of Block
SSB = Dual-Barrier
RSB = Tri-Barrier

Contact Spacing
3 = 0.325”
6 = 0.375”
7 = 0.4375”

Base Options
C = Closed Base
F = Flat Base
R = Raised Base
T = Turret Base
or
Mounting Piece Options
R = Right-angle mounting, without bracket
V = Vertical mounting

Mounting Options
E = Open end positions, with mounting inserts, with end barriers
F = Open end positions, without mounting inserts, without end barriers
G = Open end positions, with mounting inserts, without end barriers
H = All positions filled with contacts, without end barriers
M = Open end positions, without mounting inserts, with end barriers
P = All positions filled with contacts, with end barriers
T = Threaded mounting plate in each end position

Number of Circuits
02 through **XX**

Terminal Options

Top Hardware Options

Circuit Identification Options

First Number in Series Designator A

OPTIONAL TERMINAL IDENTIFICATION
Select the desired version from the list below and add the CODE NUMBER (11, 12, 15 or 16) to the end of the catalog number of the connector or header.

CODE
11 = 1 2 3 4 . . .
12 = . . . 4 3 2 1
15 = . . . 4 3 2 1
16 = 1 2 3 4 . . .

*"First Number In Series" Designator**

A = 1	F = 6
B = 2	G = 7
C = 3	H = 8
D = 4	J = 9
E = 5	K = 0

* Letters in this position designate the first number to be used in the consecutive sequence. Ex.: "A" would start the sequence with the number 1. "EK" would start the sequence with the number 50. "BKK" would start the series with 200. For non-sequential numbering and special characters, consult Technical Support.

Note: Some catalog number combinations are not valid. Check appropriate catalog pages before ordering. Catalog numbering code applies only to the catalog numbers on pages 125, 148-151, 164-169.

Note: All part numbers are RoHS Compliant.

Catalog Number Code (Continued)

6 PCV-04-XXX

Contact Spacing
3 = 0.250”
4 = 0.325”
6 = 0.375”
8 = 0.4375”

Suffix (if applicable)

Number of Circuits
02 through **XX**

Terminal Style

DBL	=	Double Printed Circuit Pin
PCR	=	Printed Circuit, Right Angle
PCV	=	Printed Circuit Pin, Vertical
QCR	=	Quick Connect Tab, Right Angle
QCV	=	Quick Connect Tab, Vertical
STR	=	Solder Turret, Right Angle
STV	=	Solder Turret, Vertical
TBV	=	Non Feed Thru
WWR	=	Solderless Wire Wrap, Right Angle
WWV	=	Solderless Wire Wrap, Vertical

Note: Some catalog number combinations are not valid. Check appropriate catalog pages before ordering. Catalog numbering code applies only to the catalog numbers on pages 119-124, 127-129, 134-136.

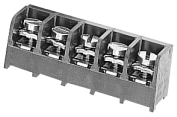
Note: All part numbers are RoHS Compliant.

Barrier Strips – Overview

Two Types of Barrier Strips and a Line of Sockets:

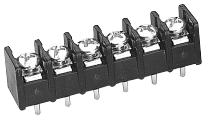
Tri-Barrier

Three walls or barriers surround each terminal screw. The back wall safeguards field wiring.



Dual-Barrier

Two walls or barriers are molded on each side of the terminal screw.



Sockets

Mounted directly to the PC board, the Barrier Strip is plugged into the socket. The socket expedites field maintenance. (Below, a tri-barrier is about to be mounted in a socket.)

Wire Clamp Screws

The lower surface and edges of the clamping-plates are carefully designed to securely clamp the wire—even combinations of different wire sizes—without severing stranded wire. Extra care has been taken to produce these components without burrs on any critical clamping surface or edges.

Resilient Plastic Barriers

Flexible thermoplastic material for terminal blocks was an especially important feature at the time of its introduction, since many earlier blocks were molded of more rigid, brittle thermosetting plastic compounds.

Wire-Ready Raised Screws

Wire-ready raised screws are standard on BUCHANAN terminal blocks. No need to back off the screw first. Just insert the wire and drive down the screw. Wire installation time and effort are virtually cut in half.

Integral Standoffs

Standoffs help rid your PCB of any remaining corrosive agents during rinsing operations. Helps prevent trapped solutions in the immediate PC pin area. Significantly reduces the risk of postwave corrosion problems.

Gas-Tight Connections

The acid-tin plating on our terminals means more than just improved shelf-life and superior solderability. It is to provide the very basis for the heart of your wire connections.

Quality Plating

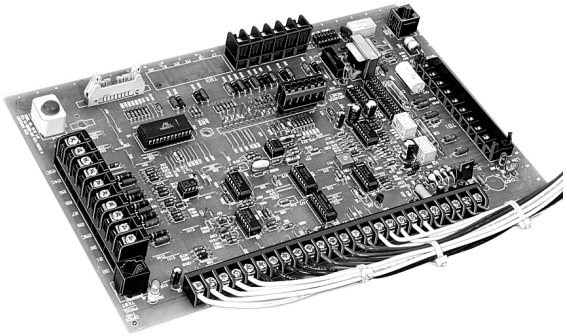
Tyco Electronics Corporation has been known for its plating, especially on the tin-plated components, and has maintained stringent plating specifications to provide a better performing, more reliable product. (Terminals meet or exceed Tyco Electronics Specification 109-11-1.)

UL Recognition and CSA Certification

Terminal blocks and interconnect components are Recognized under the Component Recognition Program of Underwriters Laboratories Inc. and Certified by Canadian Standards Association. (Consult individual sections of this catalog for status of a specific series.)

Typical Application

Pictured below is a PC board with barrier strips and sockets wave soldered to it.



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Note: All part numbers are RoHS Compliant.

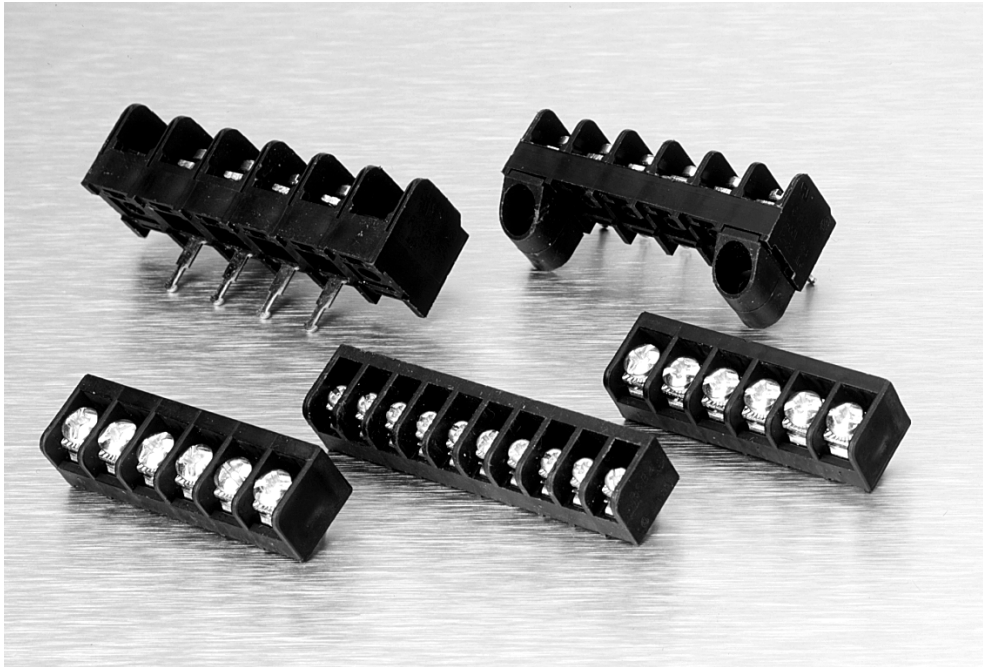
Tri-Barrier Strips

Product Facts

- Industrial controls and automation
- Machine tools
- HVAC/R
- Power supplies
- Security/Irrigation
- Transformers

Design Advantages

- Back barriers to safeguard field wiring
- Fast wiring – backed-out wire-ready screws
- Interrupted thread designed to prevent screws from falling out
- Standoffs allow flux and solvents to drain during cleaning
- Molded-to-length or cut-to-length versions available
- Phil-slot screws are standard
- RoHS compatible



Tri-Barrier blocks help contain stray or frayed wire ends. This helps prevent electrical shorts — not only between positions on the same block, but also between other components immediately adjacent to the block. With today's high-density PCB designs, this has become an increasingly important feature.

Connector Index

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0.325” Pitch, with Attached Safety Cover 127
0.375” Pitch, Series #6 128-135
0.375” Pitch, Modular with Cover 132
0.375” Pitch, Series BC6, Panel Mount.....133,134
0.375” Pitch, Series MB6, Double Level 135
0.4375” Pitch, Series #8 136-138

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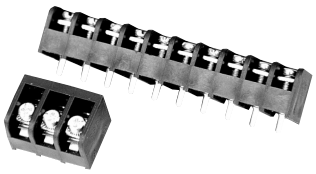
.250” [6.35] Pitch, Series #3

3PCV-03-006 & 3PCV-10-006



Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-0
Color—Black
Terminals—Bright acid tin over copper alloy
Screws—Steel, zinc plating with clear chromate coating. Wire clamping screws standard.

Mechanical Properties

Pitch (Terminal Spacing)—0.250” [6.35]
Recommended PCB Hole Dia.—1.8mm [.073”] Recommended
Tightening Torque: 5.5 in.-lbs.

Electrical Properties

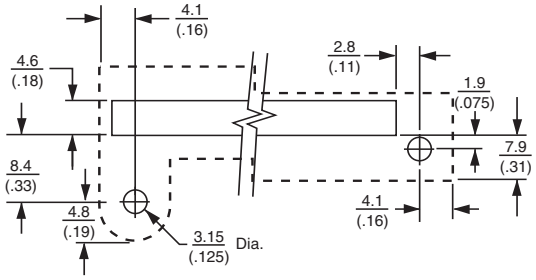
Ratings—UL Class C 10 Amps, 150V
UL Class D 10 Amps, 300V
CSA Type C 10 Amps, 150V
CSA Type D 10 Amps, 300V
Wire Range—18-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.
Circuit Identification—See page 179

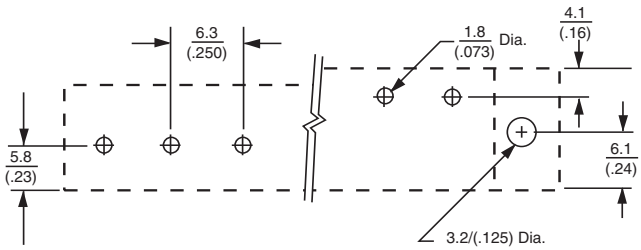
Hardware Options

TC3—Safety cover, see page 174
J3—Jumper, see page 177



RIGHT ANGLE VERTICAL

MOUNTING PANEL LAYOUT



RIGHT ANGLE CENTER

PRINTED CIRCUIT LAYOUT

LR30811 E54800

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Note: All part numbers are RoHS Compliant.

.250" [6.35] Pitch, Series #3 (Continued)

Ordering Information

3 PCV - 04 - 006

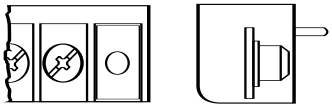
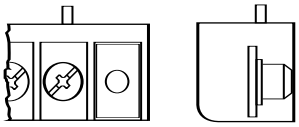
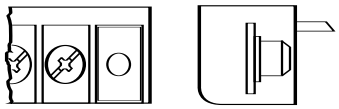
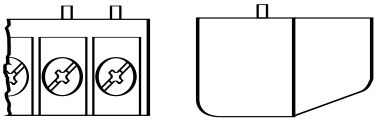
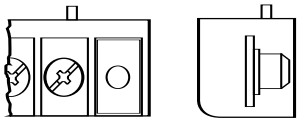
A B C D

A Thread Size Spacing
3 = #m3 on .250" Centers

B Terminal Style
PCV = Printed Circuit Pin, Vertical
PCR = Printed Circuit, Right Angle
STV = Solder Turret, Vertical
STR = Solder Turret, Right Angle
WWV = Solderless Wire Wrap, Vertical

C No. of Circuits (Not Positions)
02 through **32**

D Modifier
Use table below.

Terminal Style	Modifier Phil-slot Head	Screw Style	Mounting Construction
PCV	**006**	Wire Clamp	No Mounting
	008	Wire Clamp	
PCR	**006**	Wire Clamp	No Mounting
	008	Wire Clamp	
STV WWV	**006**	Wire Clamp	
	008	Wire Clamp	No Mounting
STR	**006**	Wire Clamp	
	008	Wire Clamp	

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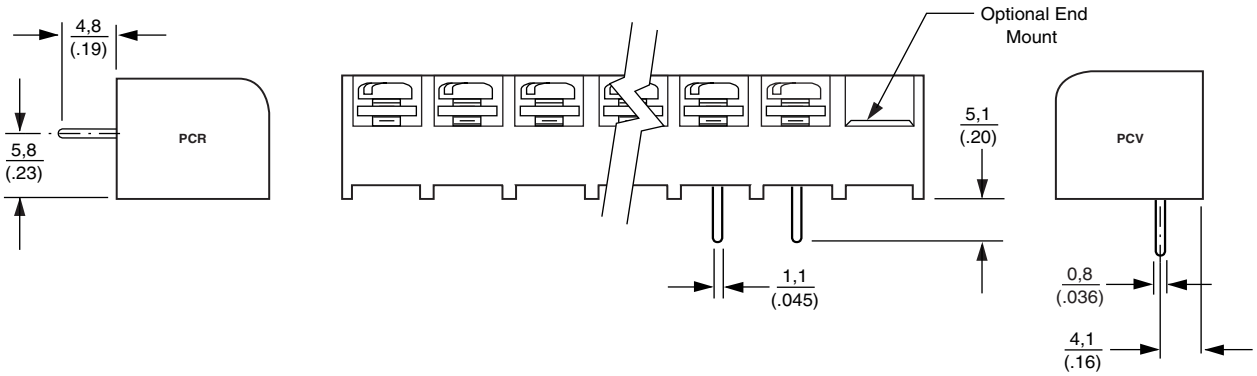
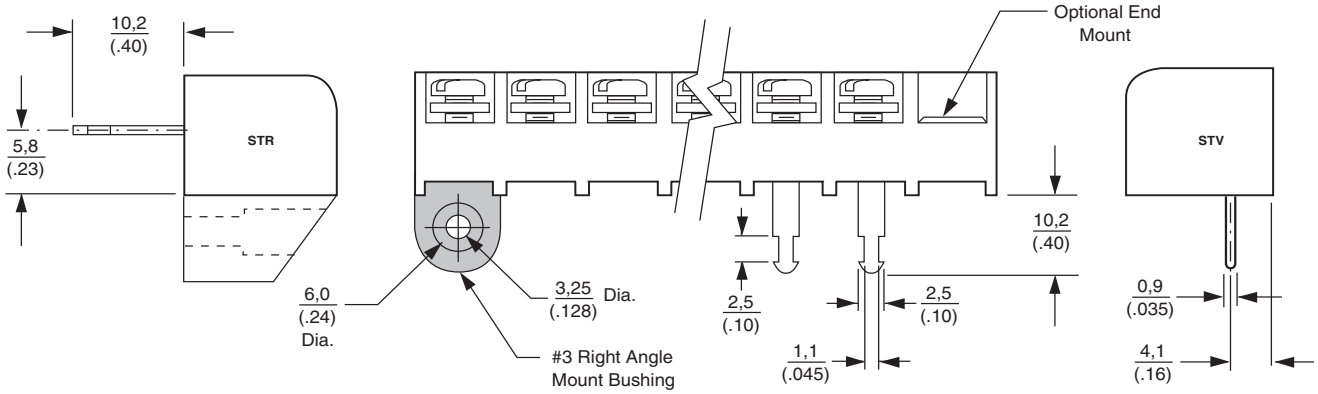
.250" [6.35] Pitch, Series #3 (Continued)

Printed Circuit Pin

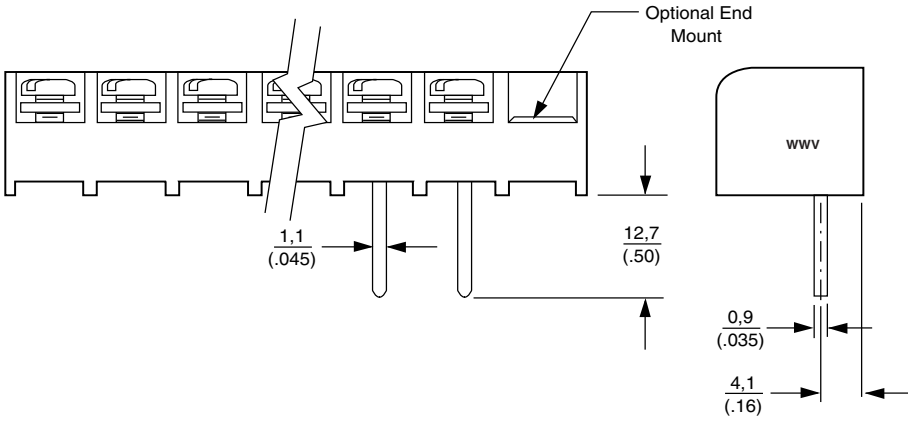


Solder Turret



Wire Wrap

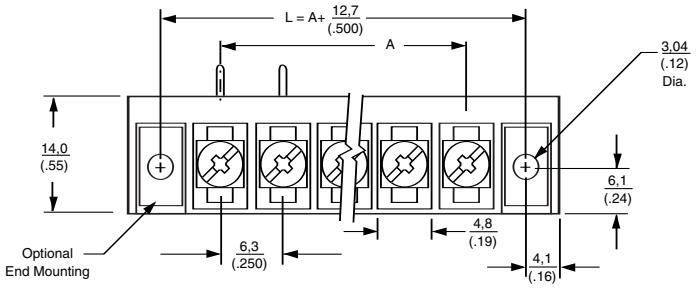
#3WWR not available

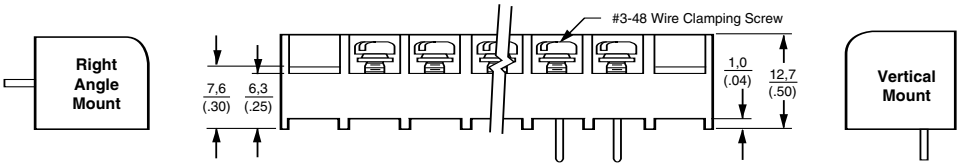


LR30811 E54800

Note: All part numbers are RoHS Compliant.

.250" [6.35] Pitch, Series #3 (Continued)





No. of Positions	Dim. A
2	**0.25** [6.3]
3	**0.50** [12.7]
4	**0.75** [19.0]
5	**1.00** [25.4]
6	**1.25** [31.7]
7	**1.50** [38.1]
8	**1.75** [44.4]
9	**2.00** [50.8]
10	**2.25** [57.1]
11	**2.50** [63.5]
12	**2.75** [69.8]
13	**3.00** [76.2]
14	**3.25** [82.5]
15	**3.50** [88.9]
16	**3.75** [95.2]
17	**4.00** [101.6]

No. of Positions	Dim. A
18	**4.25** [107.9]
19	**4.50** [114.3]
20	**4.75** [120.6]
21	**5.00** [127.0]
22	**5.25** [133.3]
23	**5.50** [139.7]
24	**5.75** [146.0]
25	**6.00** [152.4]
26	**6.25** [158.8]
27	**6.50** [165.1]
28	**6.75** [171.5]
29	**7.00** [177.8]
30	**7.25** [184.2]
31	**7.50** [190.5]
32	**7.75** [196.9]

LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

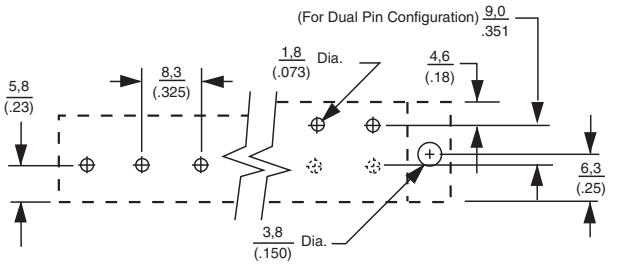
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series #4, Tri-Barrier

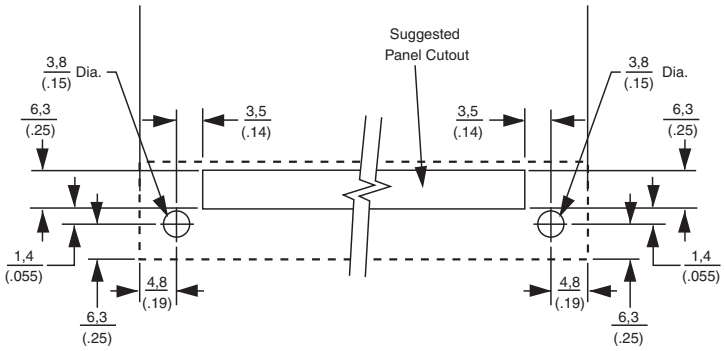
4PCV-06-006



Right Angle

Vertical

Printed Circuit Board Layout



Panel Layout

Material & Finish

Housing Material—Polyamide

Flammability—UL94V-0

Color—Black

Terminals—Bright acid tin over copper alloy

Screws—#4-40 steel, zinc plating with clear chromate coating. Wire clamping screw and binding head screw available.

Mechanical Properties

Pitch (Terminal Spacing)—0.325" [8.255]

Recommended PCB Hole Dia.—1.8mm [.073"]

Recommended Tightening Torque—7 in.-lbs. max.

Electrical Properties

Ratings—UL Class C 20 Amps, 150V
UL Class D 10 Amps, 300V
CSA Type C 20 Amps, 150V
CSA Type D 10 Amps, 300V

Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.

Circuit Identification—See page 179

Hardware Options

TC4—Safety cover, see page 174

8-1437649-0—Wire clamp screw, see page 178

8-1437649-0—Binding head screw, see page 178

J4—Jumper, see page 177

LR30811 E54800

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series #4, Tri-Barrier (Continued)

Ordering Information

4 PCV-04-006

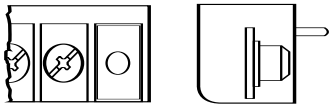
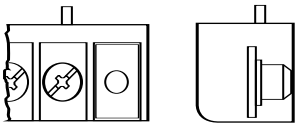
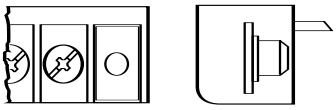
Ⓐ Ⓑ Ⓒ Ⓓ

Ⓐ Screw Size Spacing
4 = #4-40 on .325" Centers

Ⓑ Terminal Style
DBL = Double Printed Circuit Pin
PCR = Printed Circuit, Right Angle
PCV = Printed Circuit Pin, Vertical
WWV = Solderless Wire Wrap, Vertical

Ⓒ No. of Circuits (Not Positions)
02 through **30**

Ⓓ Modifiers
Use table below.

Terminal Style	Modifier Phil-slot Head	Screw Style	Mounting Construction
DBL	**006**	Wire Clamp	No Mounting
PCV	**006**	Wire Clamp	No Mounting
	008	Wire Clamp	
PCR	**006**	Wire Clamp	No Mounting
	008	Wire Clamp	
WWV	**006**	Wire Clamp	
	008	Wire Clamp	No Mounting

LR30811 E54800

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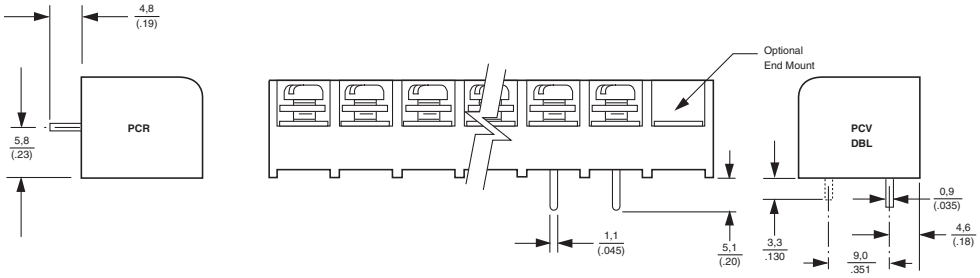
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

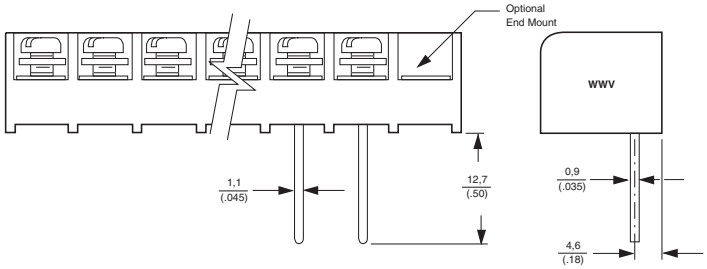
0.325" [8.26] Pitch, Series #4, Tri-Barrier (Continued)

Printed Circuit Pin

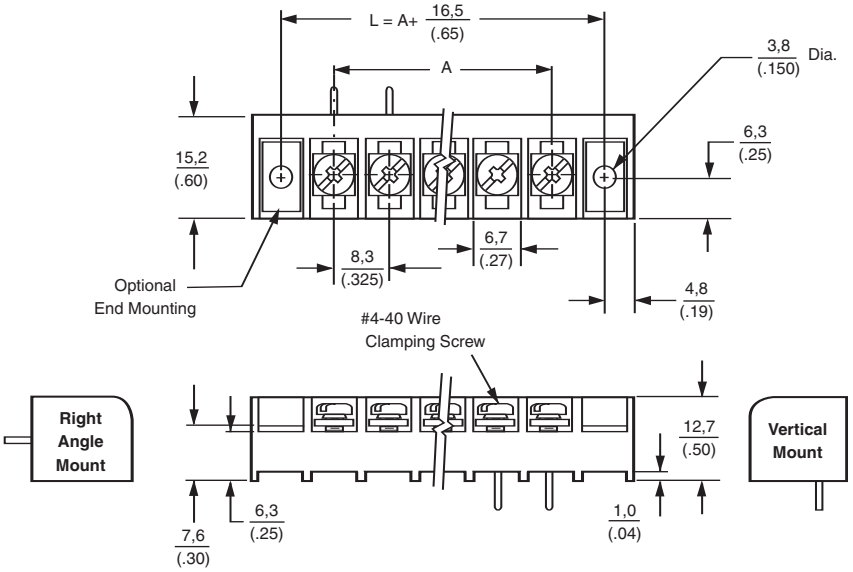


Wire Wrap

#4 WWR Not available



0.325" Pitch, Series #4, Tri-Barrier



No. of Positions	Dim. A
2	(0.325) 8,2
3	(0.65) 16,5
4	(0.97) 24,7
5	(1.30) 33,0
6	(1.62) 41,3
7	(1.95) 49,5
8	(2.27) 57,8
9	(2.60) 66,0
10	(2.92) 74,3
11	(3.25) 82,5
12	(3.57) 90,8
13	(3.90) 99,1
14	(4.22) 107,3
15	(4.55) 115,6
16	(4.87) 123,8

No. of Positions	Dim. A
17	(5.20) 132,1
18	(5.52) 140,3
19	(5.85) 148,6
20	(6.17) 156,8
21	(6.50) 165,1
22	(6.82) 173,3
23	(7.15) 181,6
24	(7.47) 189,9
25	(7.80) 198,1
26	(8.13) 206,4
27	(8.45) 214,6
28	(8.78) 222,9
29	(9.10) 231,1
30	(9.43) 239,4

LR30811 E54800

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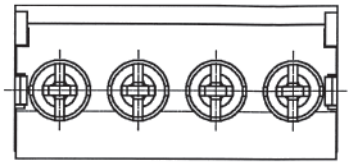
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Tri-Barrier Strips with Attached Safety Covers, .325” [8.26] Centerline

Product Facts

- **Screwdriver access holes in cover allow for efficient wiring; cover may remain closed**



Material & Finish

Insulator Body—UL 94V-0 Thermoplastic, black

Terminal—Brass, tin-plated

Mechanical Properties

Recommended screw tightening torque—12 in-lbs

Combination drive screws with #2 Phillips recess and standard slot

Electrical Properties

Current Rating—15 A

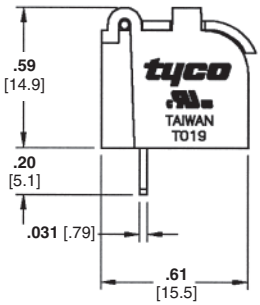
Voltage Rating— 300 VAC/DC

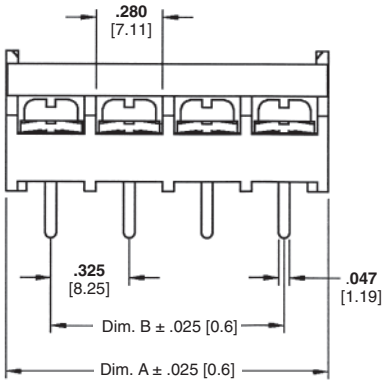
Wire Range—22-14 AWG, Cu, Solid or Stranded

Environmental Properties

Operating Temperature— -40˚C to +120˚C [-104°F to +248°F]

Circuit Identification—See page 179





No. of Position*	Dimensions A	Dimensions B	Part Numbers
2	**0.697** [17.7]	**0.325** [08.3]	1546927-2
3	**1.022** [26.0]	**0.650** [16.5]	1546927-3
4	**1.347** [34.2]	**0.975** [24.8]	1546927-4
5	**1.672** [42.5]	**1.300** [33.0]	1546927-5
6	**1.997** [50.7]	**1.625** [41.3]	1546927-6
7	**2.322** [59.0]	**1.950** [49.5]	1546927-7
8	**2.647** [67.2]	**2.275** [57.8]	1546927-8

*Contact Tyco Electronics for larger position sizes.
Note: Samples available in Sample Room.

Dimensions are in millimeters and inches unless otherwise specified.

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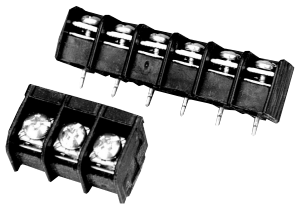
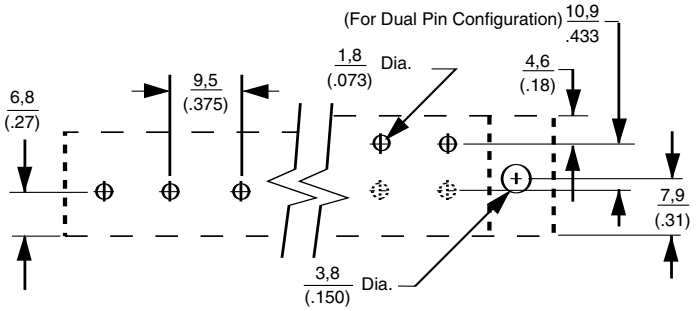
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

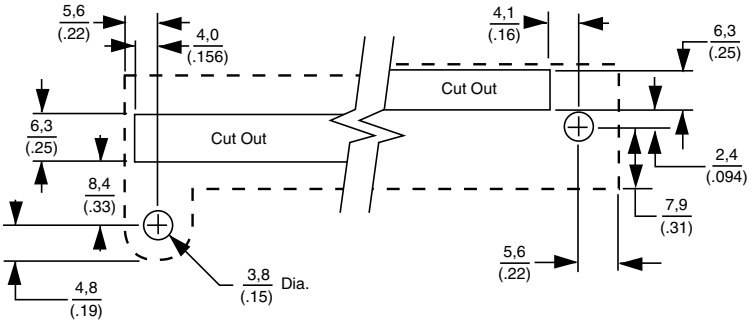
0.375" [9.53] Pitch, Series #6, Tri-Barrier

6PCV-03-006 & 6PCV-06-006





Right Angle **Vertical**
Printed Circuit Board Layout



Right Angle **Vertical**
Mounting Panel Layout

Material & Finish

Housing Material—Polyamide
Flammability—UL94V-0
Color—Black
Terminals—Bright acid tin over copper alloy
Screws—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws with undercut available.

Mechanical Properties

Pitch (Terminal Spacing)—0.375" [.525]
Recommended PCB Hole Dia.—1.8mm [.073"]

Electrical Properties

Ratings—UL Class C 25 Amps, 300V
UL Class D 5 Amps, 600V
CSA Type C 25 Amps, 300V
CSA Type D 5 Amps, 600V
Wire Range—18-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.
Circuit Identification—See page 179

Hardware Options

QC6—Quick connects, see page 176
ST80—Single sided solder tabs, see page 176
J6—Jumpers, see page 177
TC6—Safety covers, see page 174
1437651-2—Wire clamp screw, steel, see page 178
1437651-5—Wire clamp screw, brass, see page 178
1437651-8—Binding head screw, steel, see page 178
LO3—Binding head screw, stainless, see page 178

LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)

6 PCV-04-006

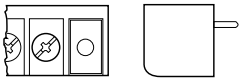
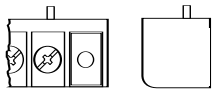
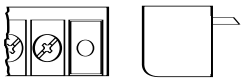
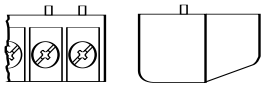
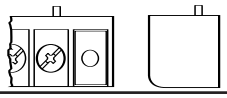
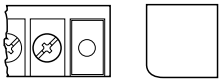
Ⓐ Ⓑ Ⓒ Ⓓ

Ⓐ Screw Size Spacing
6 = #6-32 on .375" Centers

Ⓑ Terminal Style
DBL = Double Printed Circuit Pin
PCR = Printed Circuit, Right Angle
PCV = Printed Circuit Pin, Vertical
STR = Solder Turret, Right Angle
STV = Solder Turret, Vertical
TBV = Non Feed Thru
WWR = Solderless Wire Wrap, Right Angle
WWV = Solderless Wire Wrap, Vertical

Ⓒ No. of Circuits (Not positions)
02 through **30**

Ⓓ Modifiers
Use table below.
-002=-006 except brass screw
-003=-007 except brass screw

Terminal Style	Modifier Phil-slot Head	Screw Style	Mounting Construction
DBL	**006**	Wire Clamp	No Mounting
	007	Binding Head	
PCV	**006**	Wire Clamp	No Mounting
	007	Binding Head	
	008	Wire Clamp	
	009	Binding Head	
PCR	**006**	Wire Clamp	No Mounting
	007	Binding Head	
	008	Wire Clamp	
	009	Binding Head	
STV WWV	**006**	Wire Clamp	
	008	Wire Clamp	No Mounting
STR WWR	**006**	Wire Clamp	
	008	Wire Clamp	
TBV	**006**	Wire Clamp	

LR30811 E54800

Catalog 1308389
Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

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USA: 1-800-522-6752
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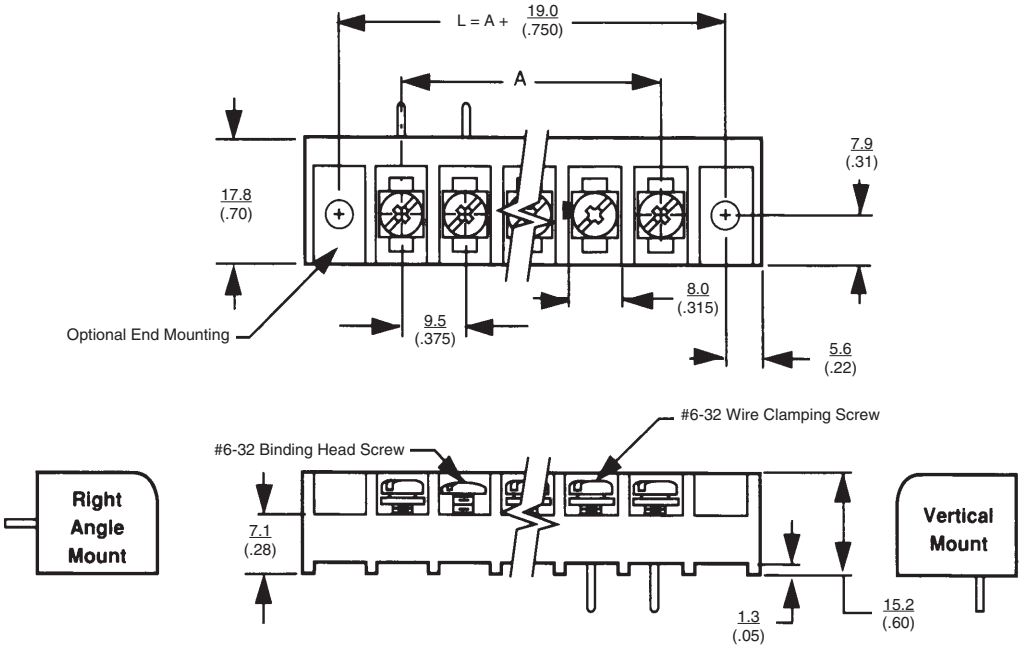
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)



No. of Positions	Dim. A
2	**0.375** [9.5]
3	**0.75** [19.1]
4	**1.12** [28.6]
5	**1.50** [38.1]
6	**1.87** [47.6]
7	**2.25** [57.1]
8	**2.62** [66.7]
9	**3.00** [76.2]
10	**3.37** [85.7]
11	**3.75** [95.2]
12	**4.12** [104.8]
13	**4.50** [114.3]
14	**4.87** [123.8]
15	**5.25** [133.3]
16	**5.62** [142.9]

No. of Positions	Dim. A
17	**6.00** [152.4]
18	**6.37** [161.9]
19	**6.75** [171.4]
20	**7.12** [181.9]
21	**7.50** [190.5]
22	**7.87** [200.0]
23	**8.25** [209.5]
24	**8.62** [219.1]
25	**9.00** [228.6]
26	**9.38** [238.1]
27	**9.75** [247.7]
28	**10.13** [257.2]
29	**10.50** [266.7]
30	**10.88** [276.2]

LR30811 E54800

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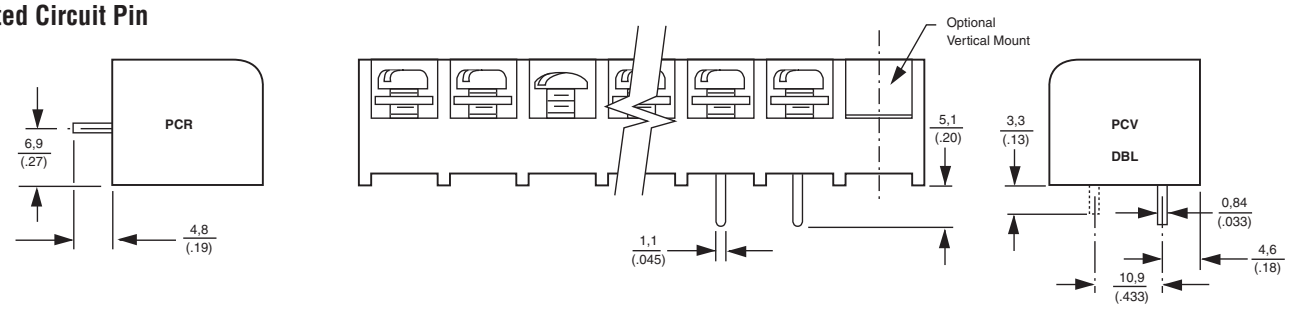
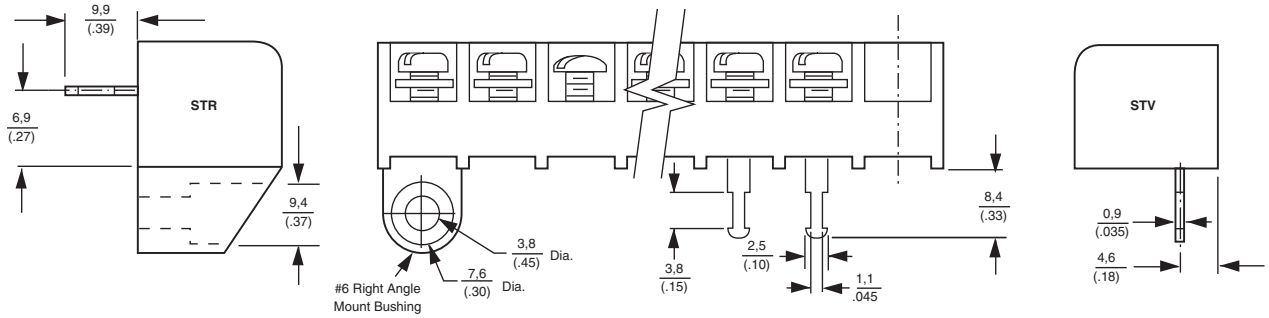
Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)

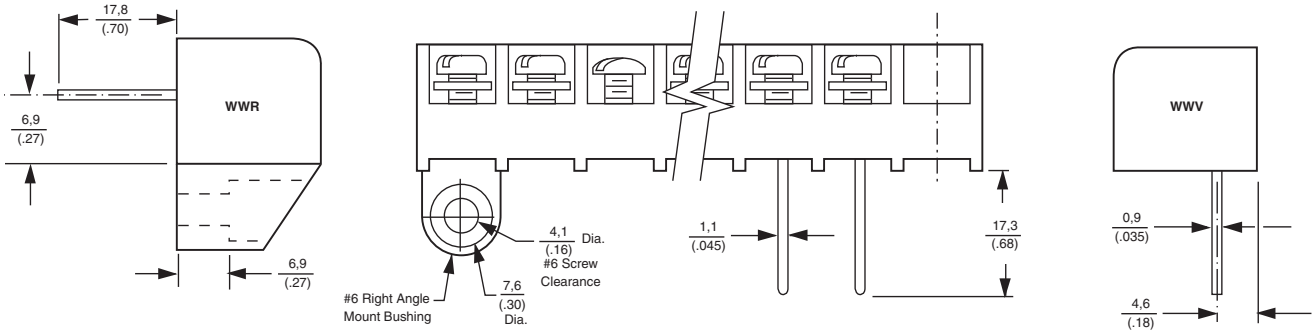
Printed Circuit Pin



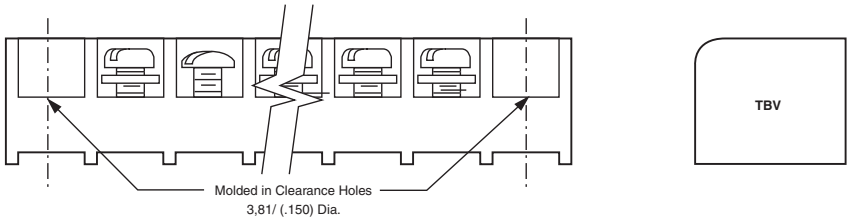
Solder Turret



Wire Wrap



Non-Feed Thru



LR30811 E54800

Catalog 1308389
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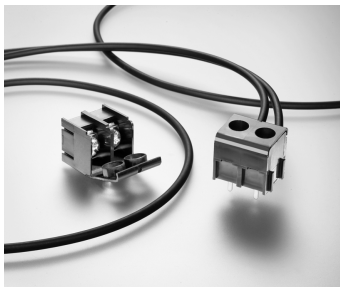
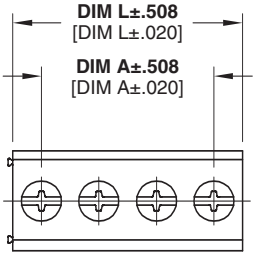
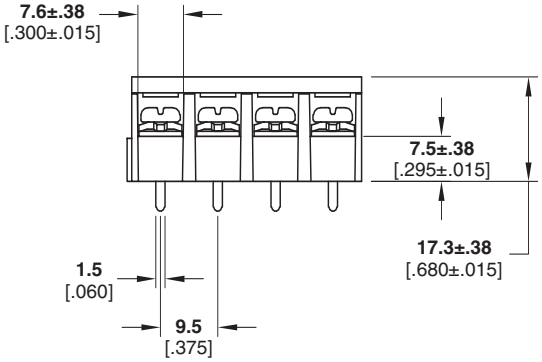
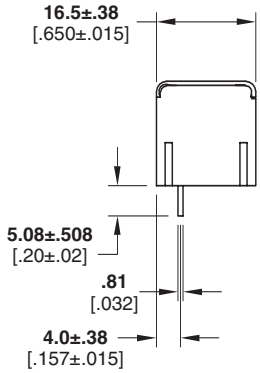
Note: All part numbers are RoHS Compliant.

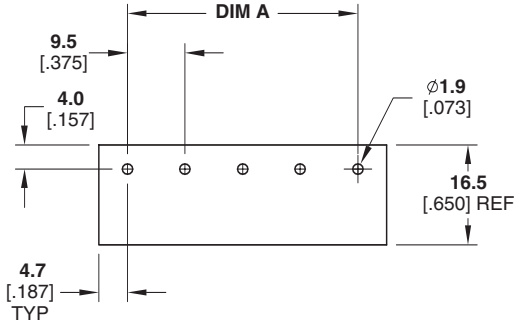
0.375" [9.53] Pitch, Modular w/cover, Tri-Barrier











Recommended PC Board Layout

Material & Finish

Housing Material—Polyamide
Flammability—UL94V-0
Color—Black
Terminals—Brass, tin-plated
Screws—m3.5, steel, nickel plated

Mechanical Properties

Pitch (Terminal Spacing)—0.375" [.525]
Recommended PCB Hole Dia.—1.8mm [.073"]
Recommended Tightening Torque—12 in.-lb.

Electrical Properties

Ratings*—UL Class B 15 Amps, 300V
UL Class D 10 Amps, 300V
*Evaluated to U.S. and Canadian Standards.
Wire Range—18-22 AWG

Environmental Properties

Operating Temperature Range—-40°C to +120°C [-104°F to +248°F]
Circuit Identification—See page 179

No. of Positions	Dimension A	Part Numbers
2	**.375** [9.5]	1546833-2
3	**.750** [19.0]	1546833-3
4	**1.125** [28.6]	1546833-4
5	**1.500** [38.1]	1546833-5
6	**1.875** [47.6]	1546833-6
7	**2.250** [57.1]	1546833-7
8	**2.625** [66.7]	1546833-8

LR30811 E60677

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

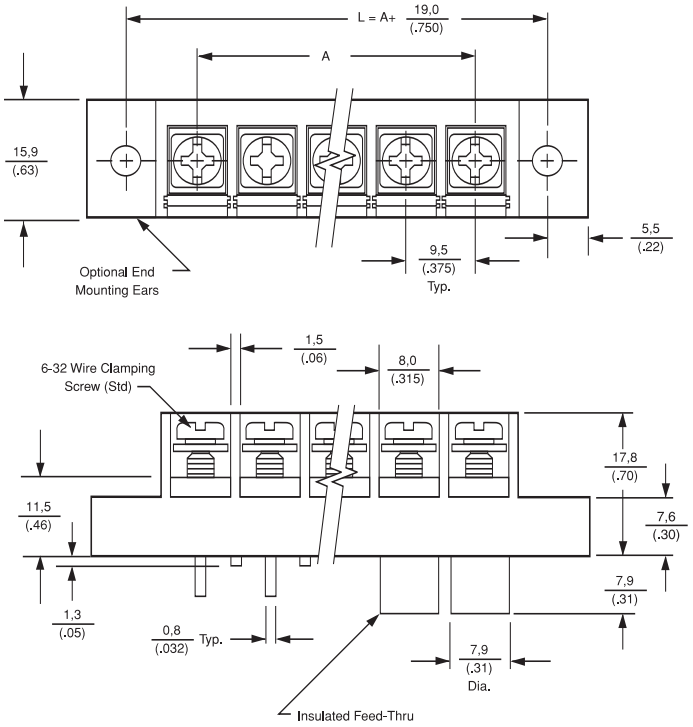
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

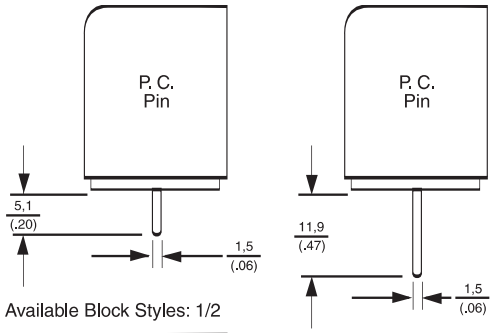
0.375" [9.53] Pitch, Series BC6

No. of Positions	Dim. A
2	**.375** [9.5]
3	**.750** [19.1]
4	**1.125** [28.6]
5	**1.500** [38.1]
6	**1.875** [47.6]
7	**2.250** [57.1]
8	**2.625** [66.7]
9	**3.000** [76.2]

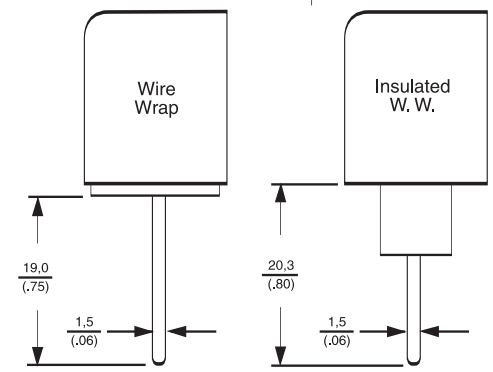
No. of Positions	Dim. A
10	**3.375** [85.7]
11	**3.750** [95.2]
12	**4.125** [104.8]
13	**4.500** [114.3]
14	**4.875** [123.8]
15	**5.250** [133.3]
16	**5.625** [142.9]



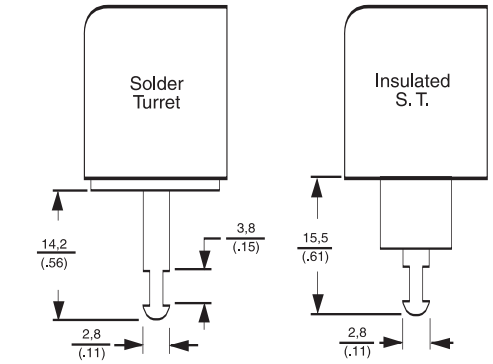
Printed Circuit Board Mounting Panel Layout



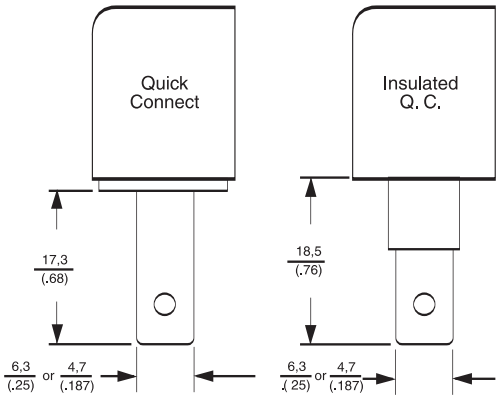
Available Block Styles: 1/2



Available Block Styles: 2/3/4/5/6



Available Block Styles: 2/3/4/5/6



Available Block Styles: 2/3/4/5/6

LR30811 E54800

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series BC6

Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-0
Color—Black
Terminals—Bright acid tin over copper alloy
Screws—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

Mechanical Properties

Pitch (Terminal Spacing)—0.375" [.525]
Recommended PCB Hole Dia.—1.8mm [.073"]

Electrical Properties

Ratings—UL Class C 20 Amps, 300V
UL Class D 5 Amps, 600V
CSA Type C 20 Amps, 300V
Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.
Circuit Identification—See page 179

Hardware Options

TC2—Safety covers, see page 174
QC2x—.250 Quick connects, see page 176
QC4x—.187 Quick connects, see page 176
ST80—Single sided solder tabs, see page 176
1437661-7—Retaining clip, Insulating turret, see page 178
J6—Jumpers, see page 177
1437651-2—Wire clamp screw, steel, see page 178
1437651-5—Wire clamp screw, brass, see page 178
1437651-8—Binding head screw, steel, see page 178
LO3—Binding head screw, stainless, see page 178

Ordering Information

BC6 - P 1 08 - 08
(A) (B) (C) (D)

(A) Terminal Style
P=Printed Circuit (available with 1,2,5 block style only)
T=Solder Turret
Q=Quick Connect .250
W=Solderless Wrap
E=Extended Circuit Board
F=Quick Connect .187

(B) Block Style
1=Flat, all positions filled (standard)
2=Flat, end mounting ears with holes (required for cover option)
3=Insulating turret, end mounting ears with holes (required for cover option)
4=Insulating turret, all positions filled
5=Flat, end positions open with mounting bushings
6=Insulating turret, end positions open with mounting bushings

(C) Screw Hardware
07=Steel binding combo head screw
08=Steel wire-clamp combo head screw (standard)
05=Brass binding combo head screw
06=Brass wire-clamp combo head screw

(D) No. of Circuits (Not Positions)
02 to **25** circuits

LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

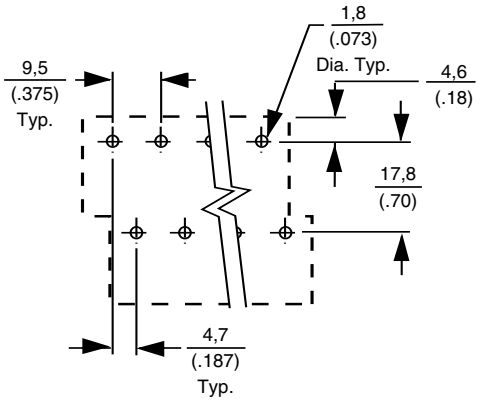
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series MB6, Double Level

MB6-P108-##



Printed Circuit Board Layout

Ordering Information

MB6 - P1 08 - 04

Ⓐ Ⓑ Ⓒ Ⓓ

Ⓐ **Series**
MB6=Double Level, 0.375" Centers

Ⓑ **Terminal Style**
P1=Printed Circuit Pin, Vertical

Ⓒ **Screw Hardware**
08=Steel wire clamp combo head screws

Ⓓ **02** through **40** available in multiples of 2

Material & Finish

Housing Material—Thermoplastic polyamide

Flammability—UL94V-0

Color—Black

Terminals—Bright acid tin over copper alloy

Screws—#6-32 steel, zinc plating with clear chromate coating.

Mechanical Properties

Pitch (Terminal Spacing)—.375" [9.525]

Recommended PCB Hole Dia.—1.8mm [.073"]

Electrical Properties

Ratings—UL Class C 25 Amps, 300V
CSA Type C 25 Amps, 600V

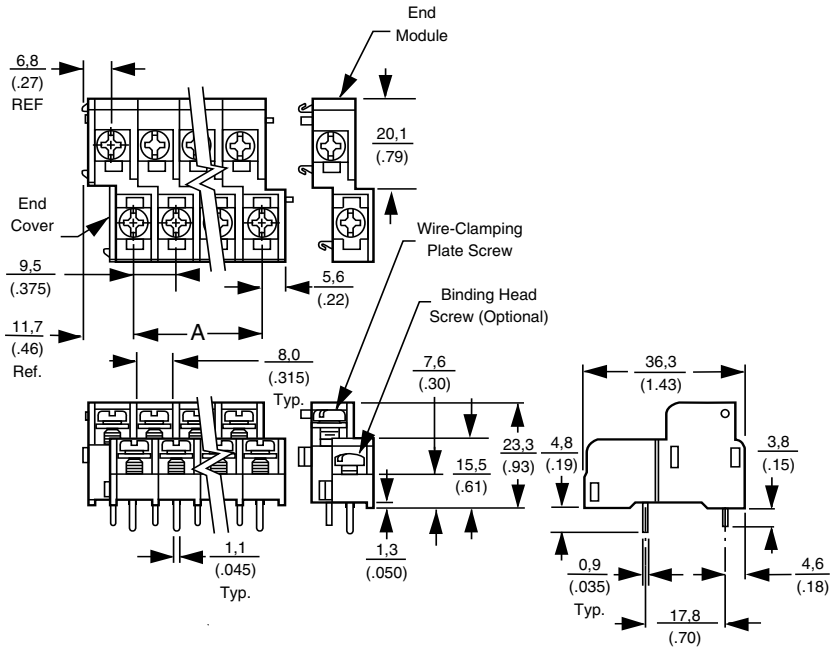
Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.

Hardware Options

1437651-2—Wire clamp screw, see page 178



No. of Positions	Dim. A
4	**0.375** [9.5]
6	**0.750** [19.1]
8	**1.125** [28.6]
10	**1.500** [38.1]
12	**1.875** [47.6]
14	**2.250** [57.1]
16	**2.625** [66.7]
18	**3.000** [76.2]
20	**3.375** [85.7]
22	**3.750** [95.2]

No. of Positions	Dim. A
24	**4.125** [104.8]
26	**4.500** [114.3]
28	**4.875** [123.8]
30	**5.250** [133.3]
32	**5.625** [142.9]
34	**6.000** [152.4]
36	**6.375** [161.9]
38	**6.750** [171.4]
*40	**7.125** [181.0]

* Longer lengths available.
Please consult Technical Support.

LR49571 E60980

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

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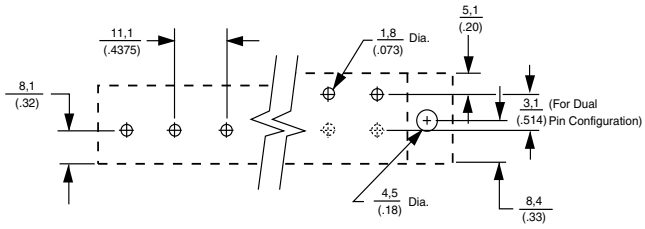
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

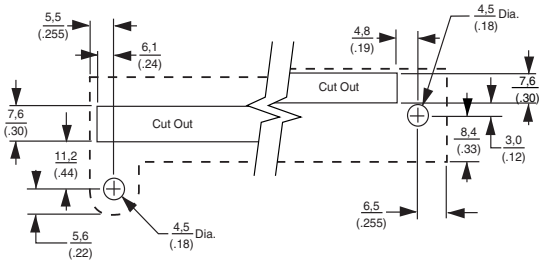
Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series #8

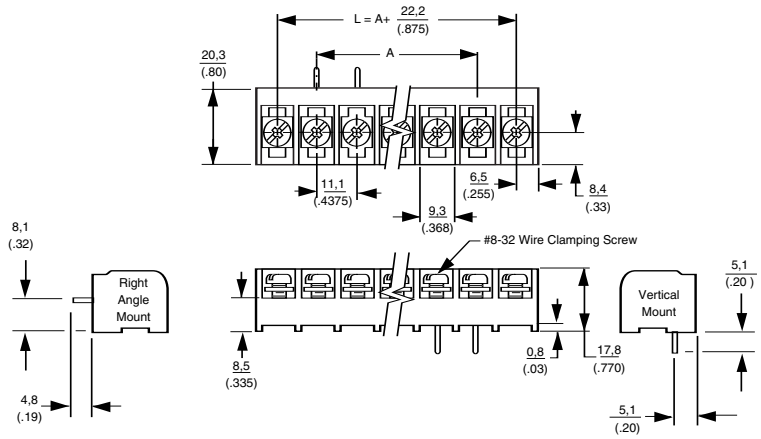
#8 Series Tri-Barriers



RIGHT ANGLE VERTICAL
PRINTED CIRCUIT BOARD LAYOUT



RIGHT ANGLE VERTICAL
MOUNTING PANEL LAYOUT



Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-0
Color—Black
Terminals—Bright acid tin over copper alloy
Screws—#8-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws with undercut available.

Mechanical Properties

Pitch (Terminal Spacing)—.4375" [11.1]
Recommended PCB Hole Dia.—1.8mm [.073"]

Electrical Properties

Ratings—UL Class C 30 Amps, 600V
CSA Type C 30 Amps, 600V
Wire Range—10-18 AWG (UL)
10-22 AWG (CSA)

Environmental Properties

Operating Temperature Range—105°C [221°F] max.
Circuit Identification—See page 179

Hardware Options

TC8—Safety covers, see page 174
QC8—Quick connects, see page 176
J8—Jumpers, see page 177
1437425-1—Wire clamp screw, see page 178
1437429-1—Binding head screw, steel, see page 178

No. of Positions	Dim. A
2	**0.4375** [11.1]
3	**0.87** [22.2]
4	**1.31** [33.3]
5	**1.75** [44.5]
6	**2.19** [55.6]
7	**2.62** [66.7]
8	**3.06** [77.8]
9	**3.50** [88.9]
10	**3.93** [100.0]
11	**4.37** [111.1]
12	**4.81** [122.2]
13	**5.25** [133.3]
14	**5.69** [144.5]

No. of Positions	Dim. A
15	**6.12** [155.6]
16	**6.56** [166.7]
17	**7.00** [177.8]
18	**7.44** [188.9]
19	**7.87** [200.0]
20	**8.31** [211.1]
21	**8.75** [222.2]
22	**9.19** [233.4]
23	**9.62** [244.5]
24	**10.06** [255.6]
25	**10.50** [266.7]
26	**10.94** [277.8]

LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series #8 (Continued)

Ordering Information

8 PCV-04-006

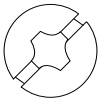
A B C D

A Screw Size Spacing
8 = #8-32 on .4375" Centers

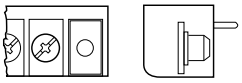
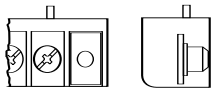
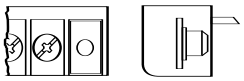
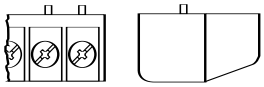
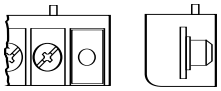
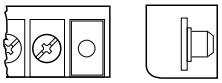
B Terminal Style
DBL = Double Printed Circuit Pin
PCR = Printed Circuit, Right Angle
PCV = Printed Circuit Pin, Vertical
QCR = Quick Connect Tab, Right Angle
QCV = Quick Connect Tab, Vertical
STR = Solder Turret, Right Angle
STV = Solder Turret, Vertical
TBV = Non Feed Thru
WWR = Solderless Wire Wrap, Right Angle
WWV = Solderless Wire Wrap, Vertical

C No. of Circuits (Not positions)
02 through **26**

D Modifiers
Use table below.
-002=-006 except brass screw
-003=-007 except brass screw



Phil-slot Head

Terminal Style	Modifier Phil-slot Head	Screw Style	Mounting Construction
DBL	**006**	Wire Clamp	No Mounting
	007	Binding Head	
PCV	**006**	Wire Clamp	No Mounting
	007	Binding Head	
	008	Wire Clamp	
	009	Binding Head	
PCR	**006**	Wire Clamp	
	007	Binding Head	
	008	Wire Clamp	
	009	Binding Head	
QCV STV WWV	**006**	Wire Clamp	
	008	Wire Clamp	No Mounting
QCR STR WWR	**006**	Wire Clamp	
	008	Wire Clamp	
TBV	**006**	Wire Clamp	

LR30811 E54800

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

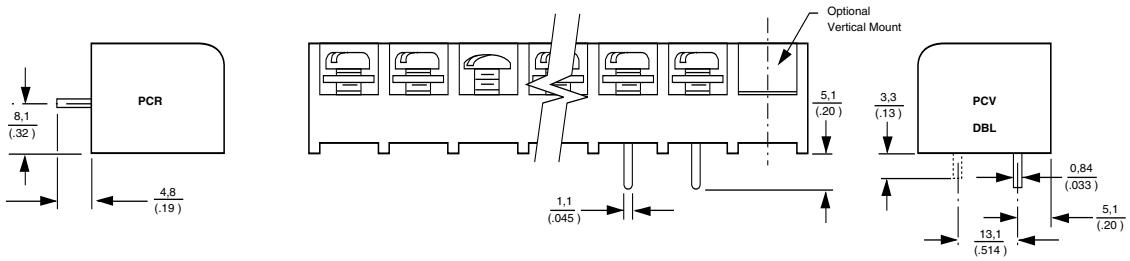
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

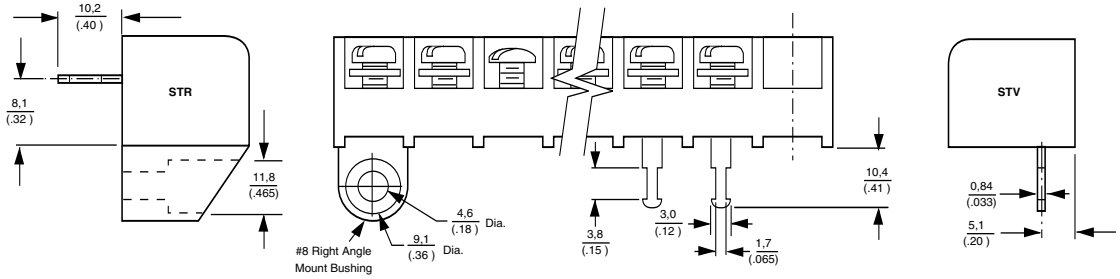
Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series #8 (Continued)

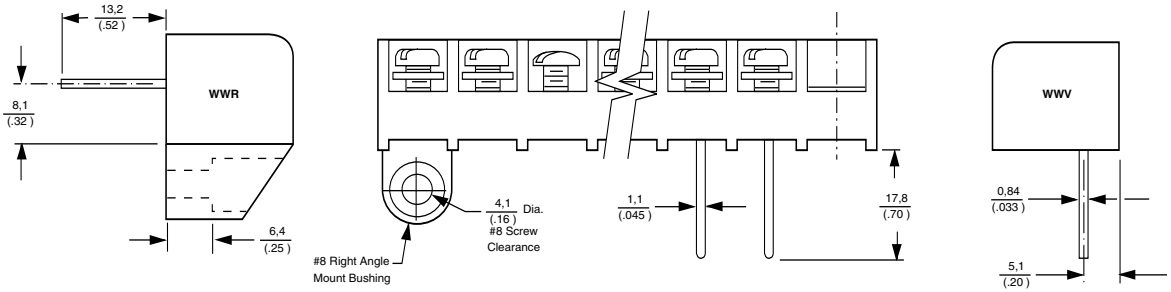
Printed Circuit Pin



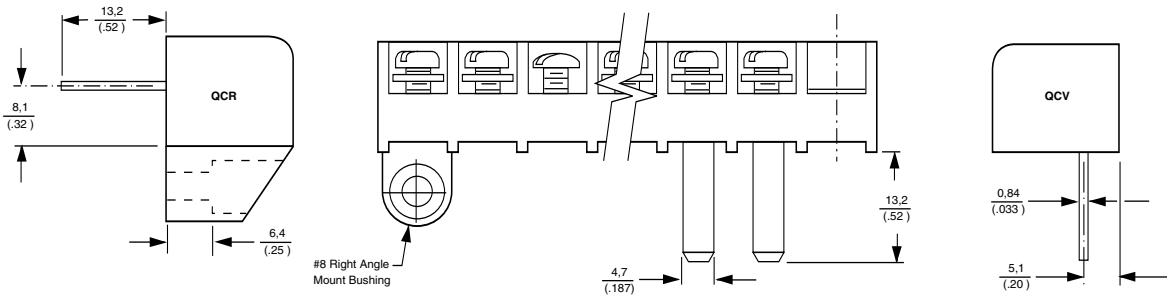
Solder Turret



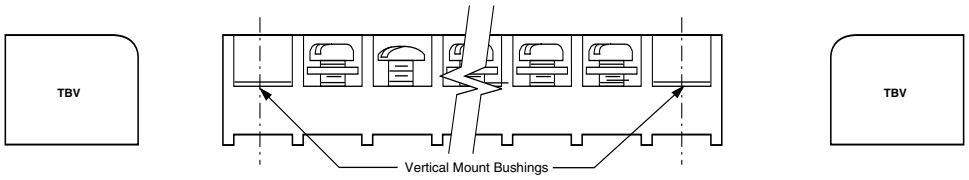
Wire Wrap



Quick Connect



Non-Feed Thru



Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Dual-Barrier Strips

Product Facts

- Industrial controls and automation
- Machine tools
- HVAC/R
- Power supplies
- Security/Irrigation
- Transformers

Design Advantages

- Fast wiring – backed-out wire-ready screws
- Interrupted thread designed to prevent screws from falling out
- Standoffs allow flux and solvents to drain during cleaning
- Molded-to-length or cut-to-length versions available

The Dual-Barrier design provides a more cost-effective solution than the Tri-Barrier Strips while still supplying many of the design advantages.

Connector Index

Single Row

0.250" Pitch, Series 1546657 .....141, 142
0.325" Pitch, Series 4DB 143-144
0.325" Pitch, High Rise 145-146
0.325" Pitch, Series SSB3.....168-170
0.375" Pitch, Series JC6 .....147, 148
0.375" Pitch, Series NC6, Low Profile 149, 150
0.4375" Pitch, Series SSB7.....151-154

Double Row, Panel Mount

0.374" Pitch 156
0.433" Pitch 157
0.437" Pitch 158
0.563" Pitch 160

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Engineering Notes

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

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Canada: 1-905-470-4425
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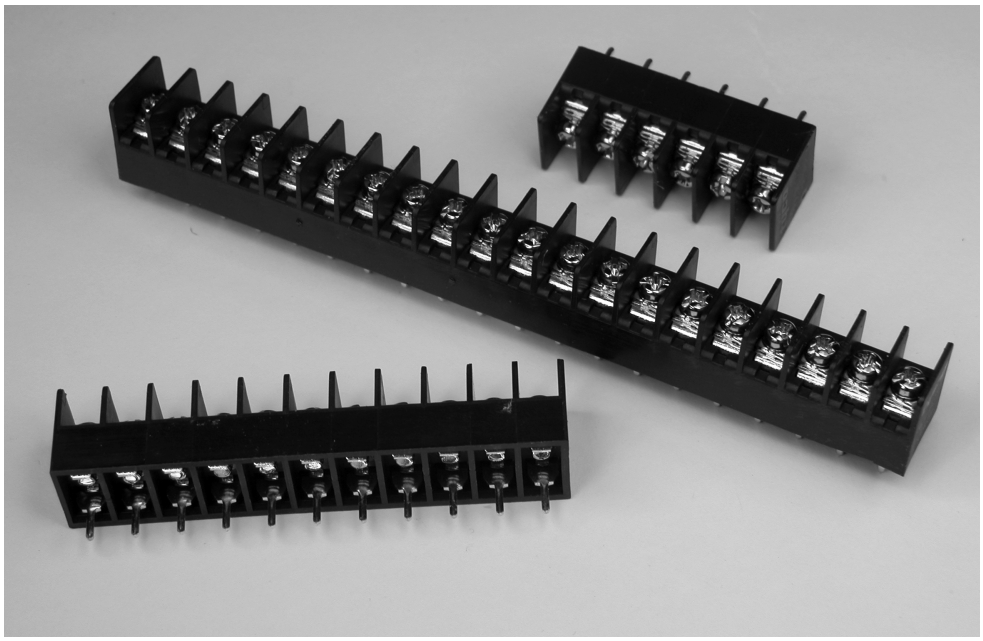
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

High-Density, Dual-Barrier Strips, .250” [6.35] Centerline

Product Facts

- **High density accommodates today's compact PCB layouts**



Material & Finish

Insulator Body—UL 94V-0 thermoplastic, black

Terminal—Brass, tin-plated

Screw—M3, Steel, nickel-plated

Mechanical Properties

Recommended Tightening Torque—10 in-lbs

Combination drive screws with #2 Phillips recess and standard slot

Electrical Properties

Current Rating—10 A

Voltage Rating—300 VAC/DC per UL and CSA standards

Wire Range—16-30 AWG Copper, Solid or Stranded

Environmental Properties

Operating Temperature—-40˚F to +221˚F [-40˚C to +115˚C]

Circuit Identification—See page 179

Hardware Options

TC8—Safety cover, see page 174

QC8—Quick connects, see page 176

J8—Jumpers, see page 177

1437425-1—Wire clamp screw, see page 178

1437429-1—Binding head screw, steel, see page 178

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E60677

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
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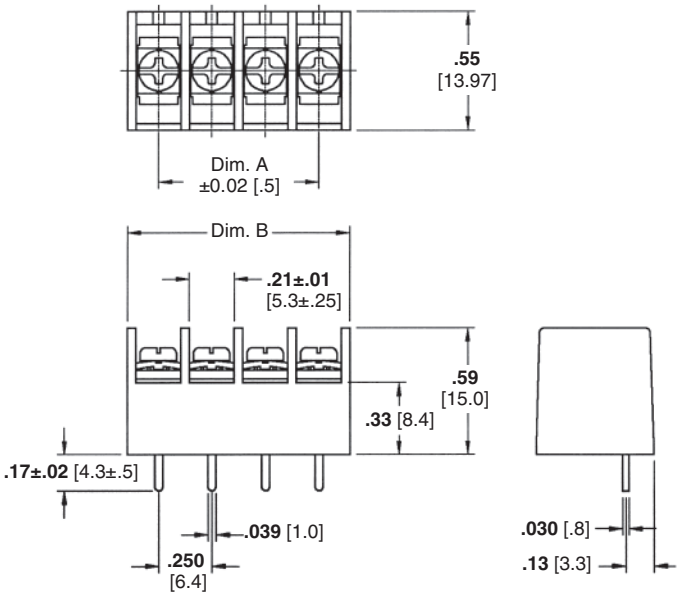
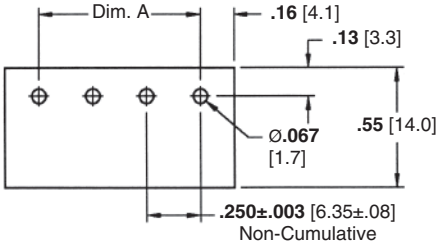
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

High-Density, Dual-Barrier Strips, .250" [6.35] Centerline (Continued)





Recommended PCB Layout

No. of Positions	Dimension A	Dimension B	Part Number
2	**0.250** [6.35]	**0.54** [13.7]	1546657-2
3	**0.500** [12.7]	**0.79** [20.1]	1546657-3
4	**0.750** [19.1]	**1.04** [26.4]	1546657-4
5	**1.000** [25.4]	**1.29** [32.8]	1546657-5
6	**1.250** [31.8]	**1.54** [39.1]	1546657-6
7	**1.500** [38.1]	**1.79** [45.5]	1546657-7
8	**1.750** [44.4]	**2.04** [51.8]	1546657-8
9	**2.000** [50.8]	**2.29** [58.2]	1546657-9
10	**2.250** [57.2]	**2.54** [64.5]	1-1546657-0
11	**2.500** [63.5]	**2.79** [70.9]	1-1546657-1
12	**2.750** [69.9]	**3.04** [77.2]	1-1546657-2
13	**3.000** [76.2]	**3.29** [83.6]	1-1546657-3
14	**3.250** [82.6]	**3.54** [90.0]	1-1546657-4
15	**3.500** [88.9]	**3.79** [96.3]	1-1546657-5

No. of Positions	Dimension A	Dimension B	Part Number
16	**3.750** [95.3]	**4.04** [102.6]	1-1546657-6
17	**4.000** [101.6]	**4.29** [108.9]	1-1546657-7
18	**4.250** [107.9]	**4.54** [115.3]	1-1546657-8
19	**4.500** [114.3]	**4.79** [121.7]	1-1546657-9
20	**4.750** [120.6]	**5.04** [128.0]	2-1546657-0
21	**5.000** [127.0]	**5.29** [134.4]	2-1546657-1
22	**5.250** [133.3]	**5.54** [140.7]	2-1546657-2
23	**5.500** [139.7]	**5.79** [147.1]	2-1546657-3
24	**5.750** [146.1]	**6.04** [153.4]	2-1546657-4
25	**6.000** [152.4]	**6.29** [159.8]	2-1546657-5
26	**6.250** [158.8]	**6.54** [166.1]	2-1546657-6
27	**6.500** [165.1]	**6.79** [172.5]	2-1546657-7
28	**6.750** [171.5]	**7.04** [178.8]	2-1546657-8
29	**7.000** [177.8]	**7.29** [185.2]	2-1546657-9
30	**7.250** [184.2]	**7.54** [191.5]	3-1546657-0

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

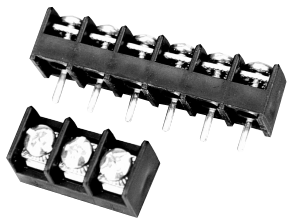
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325” [8.26] Pitch, Series 4DB

4DB-P108-##



Material & Finish

Housing Material—Thermoplastic Polyamide

Flammability—UL94V-0

Color—Black

Terminals—Bright acid-tin over copper alloy

Screws—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

Mechanical Properties

Pitch (Terminal Spacing)—0.325" [9.525]

Recommended PCB Hole Dia.—1.7mm [0.07"]

Electrical Properties

Ratings—UL Class C 20 Amps, 150V
UL Class D 10 Amps, 300V
CSA Type B 20 Amps, 300V
CSA Type C 20 Amps, 300V
CSA Type D 10 Amps, 300V
CSA Type E 20 Amps, 300V

Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.

Circuit Identification—See page 179

Hardware Options

QC4—Quick connects, see page 176

J4—Jumpers, see page 177

9-1437667-9—Wire clamp screw, see page 178

Ordering Information

4DB - P 1 08 - 06

A B C D E

A Series
4DB = Dual-Barrier, 0.325" Centers

B Terminal Style
P = Printed Circuit Pin
W = Wire Wrap
R = Right Angle

C Block Style
1 = Flat, all positions filled
2 = Flat, end mounting holes

D Screw Type
07 = Steel binding combo head screws
08 = Steel wire clamp combo head screws

E No. of Circuits (Not Positions)
02 through **30**

LR30811 E54800

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

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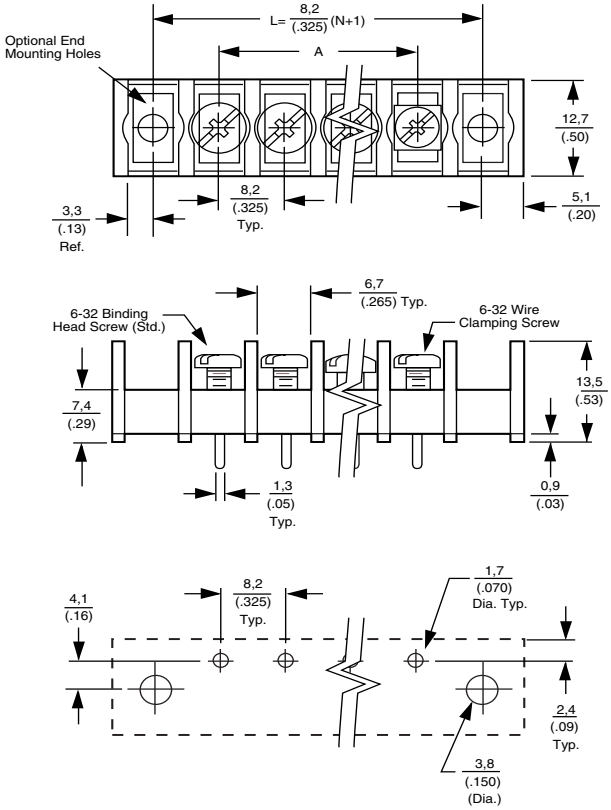
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

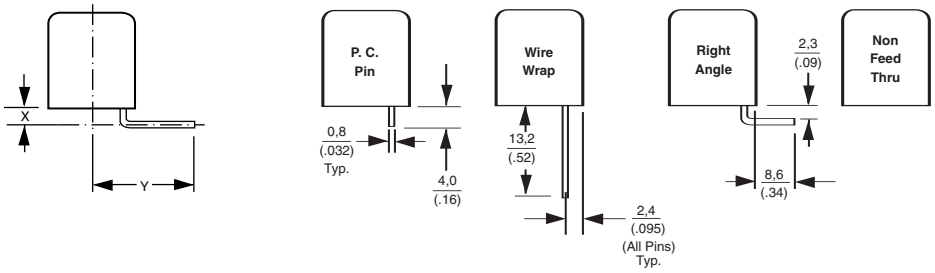
0.325" [8.26] Pitch, Series 4DB (Continued)



PRINTED CIRCUIT BOARD LAYOUT

Bend Options:

A variety of bend options are available. Please consult Technical Support for details.



No. of Positions	Dim. A	
2	**0.325**	[8.2]
3	**0.650**	[16.5]
4	**0.975**	[24.8]
5	**1.300**	[33.0]
6	**1.625**	[41.3]
7	**1.950**	[49.5]
8	**2.275**	[57.8]
9	**2.600**	[66.0]
10	**2.925**	[74.3]
11	**3.250**	[82.5]
12	**3.575**	[90.8]
13	**3.900**	[99.1]
14	**4.225**	[107.3]
15	**4.550**	[115.6]
16	**4.875**	[123.8]

No. of Positions	Dim. A	
17	**5.200**	[132.1]
18	**5.525**	[140.3]
19	**5.850**	[148.6]
20	**6.175**	[156.8]
21	**6.500**	[165.1]
22	**6.825**	[173.3]
23	**7.150**	[181.6]
24	**7.475**	[190.0]
25	**7.800**	[198.1]
26	**8.125**	[206.4]
27	**8.450**	[214.6]
28	**8.775**	[222.8]
29	**9.100**	[231.1]
30	**9.425**	[239.4]

LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
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C. America: 52-55-1106-0803

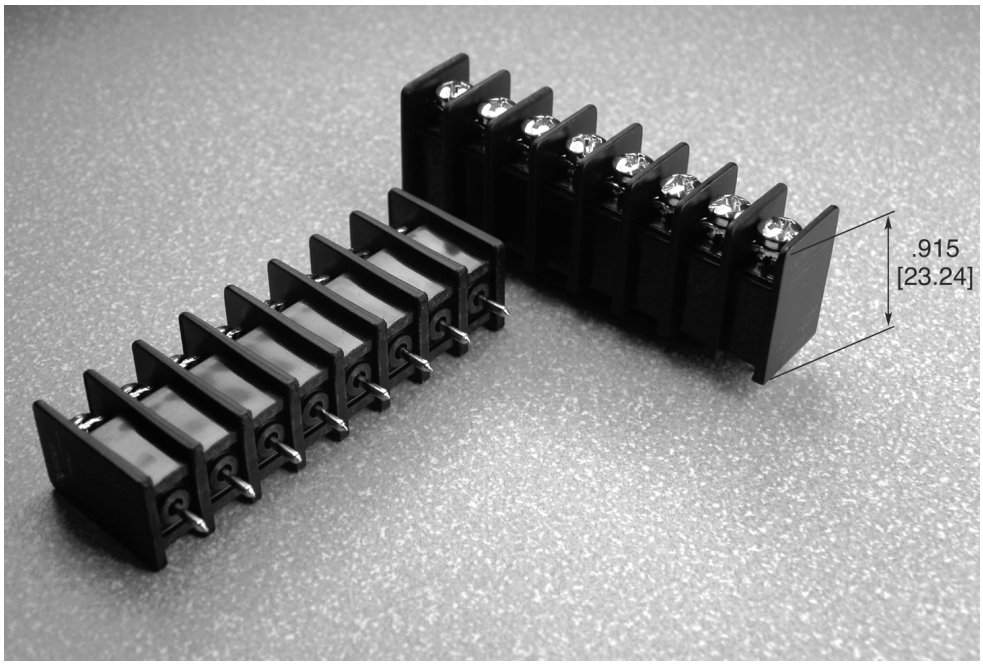
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

High Rise Dual-Barrier Strips, .325 [8.26] Centerline

Product Facts

- **High rise profile provides wire entry access on congested PC boards**
- **Space saving high rise design allows for dual-level wire entry when used with 4DB series barrier strips**
- **Captive screws provided in wire-ready position**



Material & Finish

Insulator Body—UL 94V-0 Thermoplastic, Black

Terminal—Brass, Tin plated

Mechanical Properties

Recommended Tightening Torque—10 in-lbs

Combination drive screws with #2 Phillips Recess and Standard Slot

Electrical Properties

Current Rating—10 A

Voltage Rating—20 A, 300 VAC/DC per UL and CSA standards

Wire Range—12-22 AWG Cu, Solid or Stranded

Environmental Properties

Operating Temperature—-40˚F to +221˚F [-40˚C to +105˚C]

Circuit Identification—See page 179

Hardware Options

J4—Jumpers, see page 177

E60677

Catalog 1308389
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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
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South America: 55-11-2103-6000
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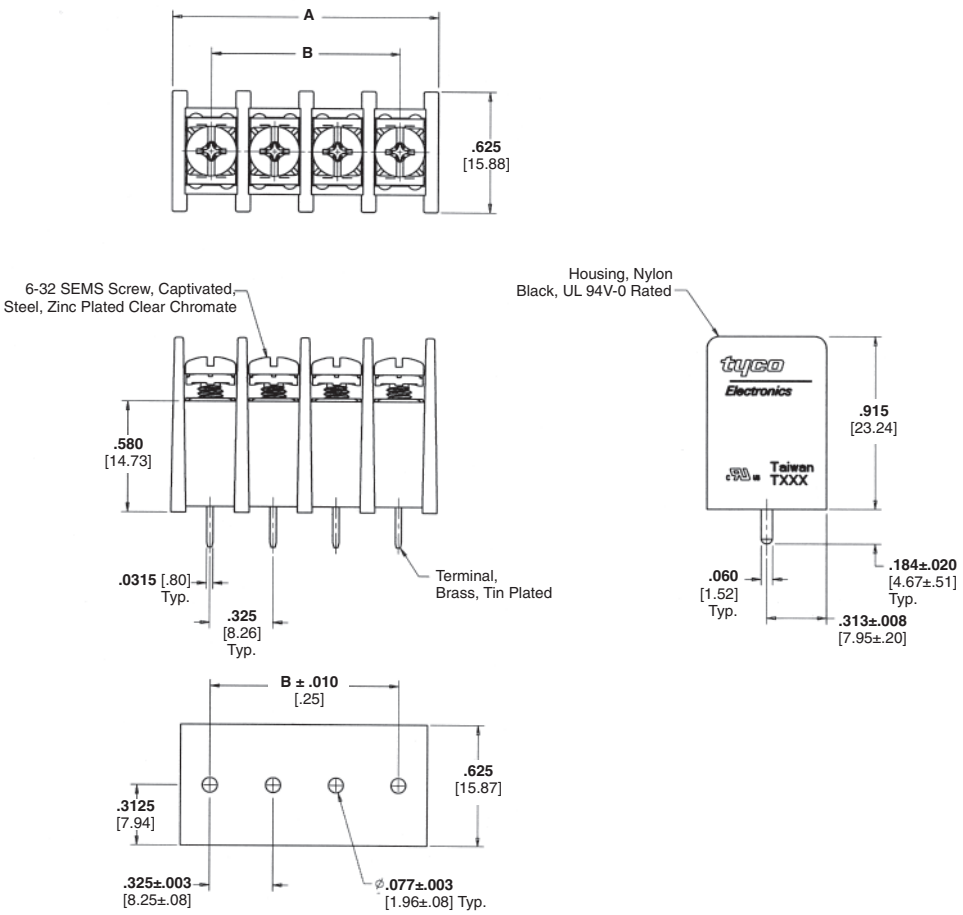
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

High Rise Dual-Barrier Strips, .325 [8.26] Centerline (Continued)



Recommended PC Board Layout

No of Positions	Dimension A	Dimension B	Part Number
2	**0.725** [18.42]	**0.325** [8.26]	1546734-2
3	**1.050** [26.67]	**0.650** [16.51]	1546734-3
4	**1.375** [34.93]	**0.975** [24.77]	1546734-4
5	**1.700** [43.18]	**1.300** [33.02]	1546734-5
6	**2.025** [51.44]	**1.625** [41.28]	1546734-6
7	**2.350** [59.69]	**1.950** [49.53]	1546734-7
8	**2.675** [67.95]	**2.275** [57.79]	1546734-8
9	**3.000** [76.20]	**2.600** [66.04]	1546734-9
10	**3.325** [84.46]	**2.925** [74.29]	1-1546734-0
11	**3.650** [92.71]	**3.250** [82.55]	1-1546734-1
12	**3.975** [100.97]	**3.575** [90.81]	1-1546734-2
13	**4.300** [109.22]	**3.900** [99.06]	1-1546734-3
14	**4.625** [117.48]	**4.225** [107.32]	1-1546734-4
15	**4.950** [125.73]	**4.550** [115.57]	1-1546734-5
16	**5.275** [133.99]	**4.875** [123.83]	1-1546734-6

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Hong Kong: 852-2735-1628
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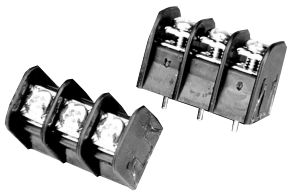
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series JC6

JC6-P107-03



Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-0
Color—Black
Terminals—Bright acid-tin over copper alloy
Screws—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

Mechanical Properties

Pitch (Terminal Spacing)—0.375" [9.525]
Recommended PCB Hole Dia.—1.8mm [.073"]

Electrical Properties

Ratings—UL Class C 20 Amps, 300V
UL Class D 5 Amps, 600V
CSA Type B 20 Amps, 300V
CSA Type C 20 Amps, 300V
CSA Type D 5 Amps, 600V
CSA Type E 20 Amps, 600V
Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°F] max.
Circuit Identification—See page 179

Hardware Options

TC9—Safety cover, see page 174
QC2x—.250 Quick connects, see page 176
QC4x—.187 Quick connects, see page 176
J6—Jumpers, see page 177
J7x—Over-the-barrier jumpers, see page 177
1437661-7—Retaining clips, insulating turrets, see page 178
1437651-2—Wire clamp screw, steel, see page 178
1437651-5—Wire clamp screw, brass, see page 178
1437651-8—Binding head screw, steel, see page 178
LO3—Binding head screw, stainless, see page 178

Ordering Information

JC6 - P 1 07 - 06

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

Ⓐ Series
JC6 = Dual-Barrier, 0.375" Centers

Ⓑ Terminal Style
C = Non Feed Thru
E = Extended Circ. Bd.
F = Quick Connect, .187
P = Printed Circuit Pin (available with 1, 2 Block Style)
T = Solder Turret
Q = Quick Connect, .250
W = Solderless Wrap

Ⓒ Block Style
1 = Flat, all positions filled
2 = Flat, end mounting ears (required for cover option)
3 = Insulating turret, end mounting ears with holes (required for cover option)
4 = Insulating turret, all positions filled
5 = Flat, open end with mounting bracket
6 = Flat, open end, mounting bracket, insulating turret
7 = Closed bottom, end mounting ears. (for C style terminal only)

Ⓓ Screw Hardware
05 = Brass binding combo head screws
06 = Brass wire-clamp combo head screws
07 = Steel binding combo head screws
08 = Steel wire-clamp combo head screws (standard)

Ⓔ No. of Circuits (Not positions)
02 through **25**

LR30811 E54800

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

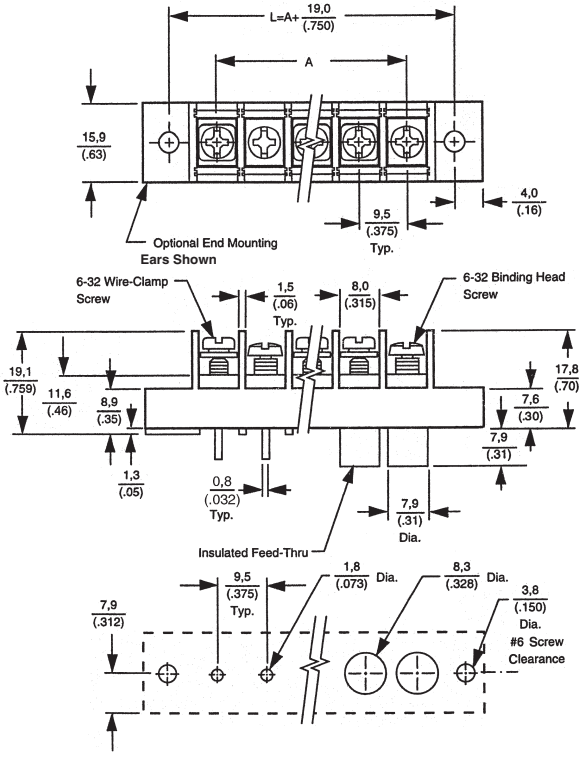
Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series JC6 (Continued)

No. of Positions	Dim. A
2	**0.325** [8.2]
2	**0.375** [9.5]
3	**0.750** [19.1]
4	**1.125** [28.6]
5	**1.500** [38.1]
6	**1.875** [47.6]
7	**2.250** [57.1]
8	**2.625** [66.7]
9	**3.000** [76.2]
10	**3.375** [85.7]
11	**3.750** [95.2]
12	**4.125** [104.8]
13	**4.500** [114.3]

No. of Positions	Dim. A
14	**4.875** [123.8]
15	**5.250** [133.3]
16	**5.625** [142.9]
17	**6.000** [152.4]
18	**6.375** [161.9]
19	**6.750** [171.45]
20	**7.125** [180.98]
21	**7.500** [190.5]
22	**7.875** [200.03]
23	**8.250** [209.55]
*24	**8.625** [219.08]
*25	**9.000** [228.60]

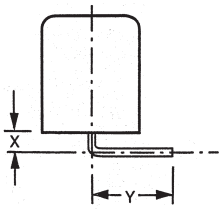
* No mounting available



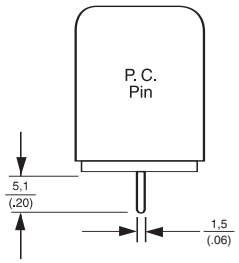
PRINTED CIRCUIT BOARD//MOUNTING PANEL LAYOUT

Bend Options

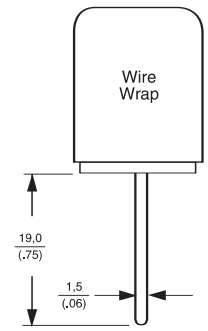
A variety of bend styles are available. Please consult Technical Support for details.



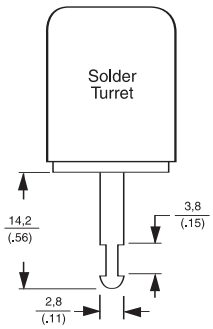
Available Block Styles: 1/2/5



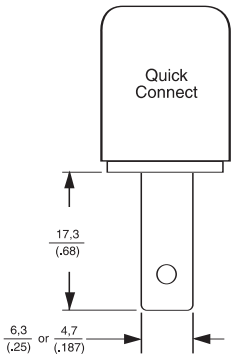
Available Block Styles: 2/3/4/5/6



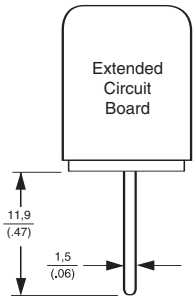
Available Block Styles: 2/3/4/5/6



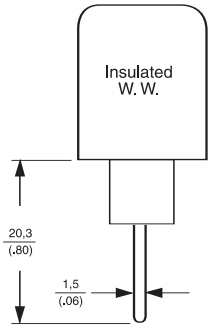
Available Block Styles: 2/3/4

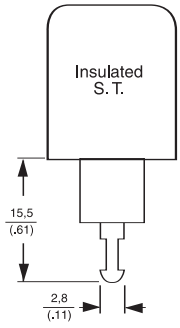


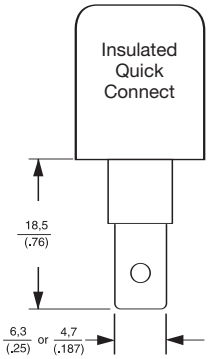
Available Block Styles: 1/2/3/4/5/6

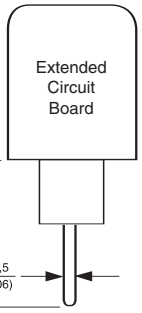


Available Block Styles: 7









LR30811 E54800

Dimensions are in millimeters and inches unless otherwise specified.

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USA: 1-800-522-6752
Canada: 1-905-470-4425
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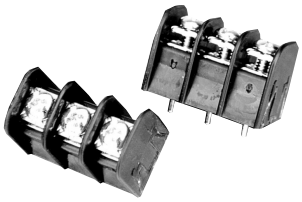
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, NC6 Series, Low Profile

NC6-P108-03



Material & Finish

Housing Material—Thermoplastic polyamide

Flammability—UL94V-0

Color—Black

Terminals—Bright acid tin over copper alloy

Screws—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

Mechanical Properties

Pitch (Terminal Spacing)—.375" [9.525]

Screw Size—#6-32 steel

Recommended PCB Hole Dia.—1.8mm [.073"] dia.

Electrical Properties

Ratings—UL Class C 20 Amps, 300V
CSA Type C 20 Amps, 300V

Wire Range—12-22 AWG

Environmental Properties

Operating Temperature Range—105°C [221°] max.

Circuit Identification—See page 179

Hardware Options

1437651-2—Wire clamp screw, steel, see page 178

1437651-5—Wire clamp screw, brass, see page 178

1437651-8—Binding head screw, steel, see page 178

LO3—Binding head screw, stainless, see page 178

Ordering Information

NC6 - P 1 08- 04

A B C D E

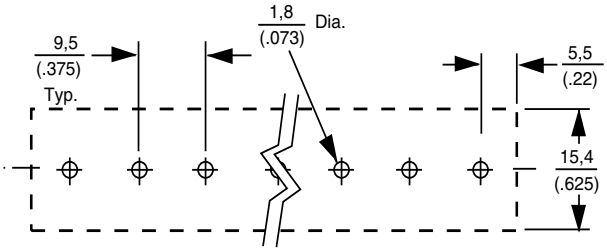
A Series
NC6 = Dual-Barrier, 0.375" Centers, Low Profile

B Terminal Style
P = Printed Circuit Pin

C Block Style
1 = Flat, all positions filled
2 = End mounting holes provided

D Screw Hardware
05 = Brass binding combo head screws
06 = Brass wire-clamp combo head screws
07 = Steel binding combo head screws
08 = Steel wire-clamp combo head screws

E No. of Circuits (Not positions)
02 through **24**



RECOMMENDED PCB HOLE LAYOUT

LR30811 E54800

Catalog 1308389
Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

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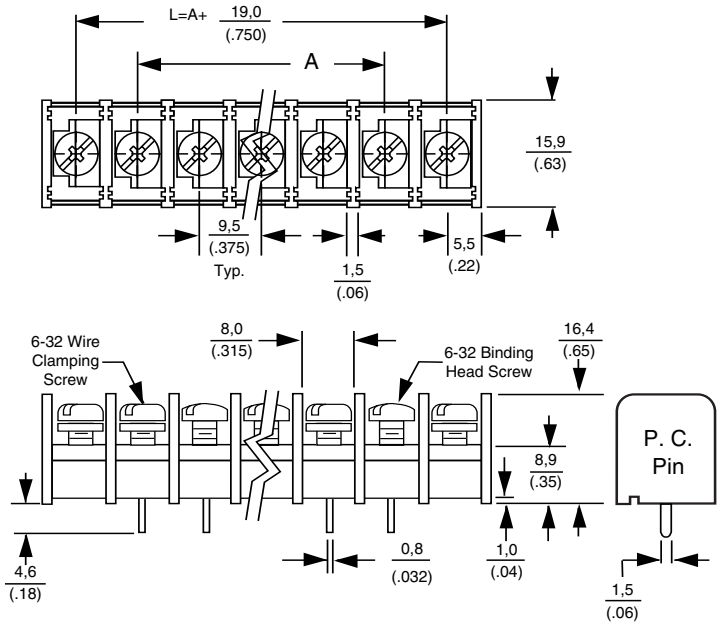
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, NC6 Series, Low Profile (Continued)



No. of Positions	Dim. A
2	**0.375** [9.5]
3	**0.750** [19.1]
4	**1.125** [28.6]
5	**1.500** [38.1]
6	**1.875** [47.6]
7	**2.250** [57.1]
8	**2.625** [66.7]
9	**3.000** [76.2]
10	**3.375** [85.7]
11	**3.750** [95.2]
12	**4.125** [104.8]
13	**4.500** [114.3]

No. of Positions	Dim. A
14	**4.875** [123.8]
15	**5.250** [133.3]
16	**5.625** [142.9]
17	**6.000** [152.4]
18	**6.375** [161.9]
19	**6.750** [161.9]
20	**7.125** [171.4]
21	**7.500** [181.0]
22	**7.875** [190.5]
*23	**8.250** [200.0]
*24	**8.625** [209.6]

* No mounting available

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Mexico: 01-800-733-8926
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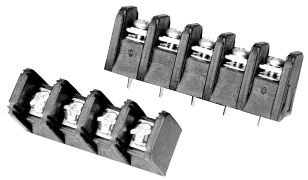
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series SSB7

SSB7FP##0202



Material & Finish

Housing Material—Polypropylene

Flammability—UL94V-2

Color—Black

Terminals—Brass, bright acid tin over copper plating

Screw—#6-32 Steel with zinc + chromate plating

Mechanical Properties

Pitch (Terminal Spacing)—.4375 in. [11.1]

Recommended PCB Hole Dia.—.077" [1.955]

Wire Strip Length—.38" [9.652]

Recommended Tightening Torque—8 in-lbs.

Recommended Screwdrivers—Stanley 1006-4, Sears Craftsman 41581, Any #2 Phillips-Head

Wire Lug Width (Max.)—8.1mm [.320 in.]

Electrical Properties

Ratings—UL Class B 20 Amps, 600V
UL Class C 20 Amps, 600V
CSA Type C 20 Amps, 300V
CSA Type D, 5 Amps, 600V

Wire Range—12-22 AWG

Dielectric Withstand—5000V

Environmental Properties

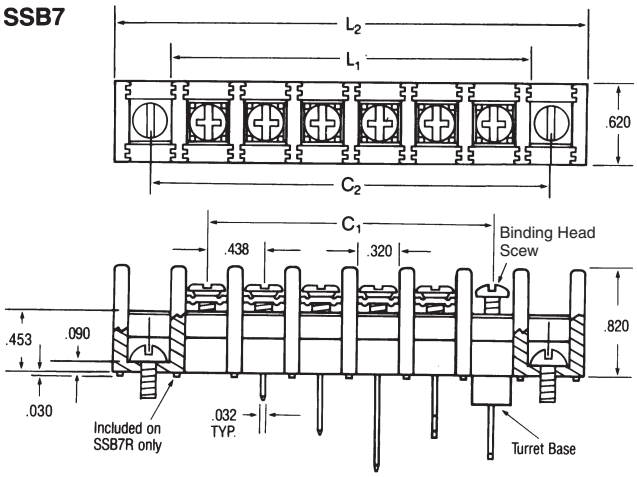
Operating Temperature Range—-60°C to +105°C [-76°F to +221°F]

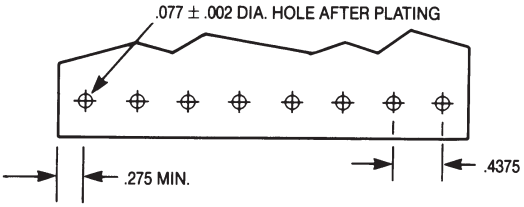
Computing Barrier Block Lengths

Direct Mounting—Use C1 and L1 for P & H mounting options

End Position Mounting—Use L2 and C2 for M, E, F & G mounting options

SSB7





Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* in.
01	—	—	0.88	1.44
02	0.44	1.00	1.31	1.88
03	0.88	1.44	1.75	2.31
04	1.31	1.88	2.19	2.75
05	1.75	2.31	2.63	3.19
06	2.19	2.75	3.06	3.63
07	2.63	3.19	3.50	4.06
08	3.06	3.63	3.94	4.50
09	3.50	4.06	4.38	4.94
10	3.94	4.50	4.81	5.38
11	4.38	4.94	5.25	5.81
12	4.81	5.38	5.69	6.25
13	5.25	5.81	6.13	6.69
14	5.69	6.25	6.56	7.13
15	6.13	6.69	7.00	7.56
16	6.56	7.13	7.44	8.00
17	7.00	7.56	7.88	8.44
18	7.44	8.00	8.31	8.88
19	7.88	8.44	8.75	9.31
20	8.31	8.88	9.19	9.75
21	8.75	9.31	9.63	10.19
22	9.19	9.75	10.06	10.63
23	9.63	10.19	10.50	11.06
24	10.06	10.63	10.94	11.50
25	10.50	11.06	11.38	11.94
26	10.94	11.50	—	—
27	11.38	11.94	—	—

LR25557 E63810

Dimensions are in millimeters and inches unless otherwise specified.

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UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series SSB7 (Continued)

Ordering Information

SSB 7 F P 06 02 02 11

A B C D E F G H

A Single Screw Dual-Barrier Strip SSB

B Contact Spacing (Center-to-Center)

7 =.4375 (7/16)

C Base Options

C=Closed Base

F=Flat Base

R=Raised Base

T=Turret Base
(Available only with 01, 04, 05, 07, 09, 12, 13, 15 style bottom terminals)

D Mounting Options

(See illustration below)

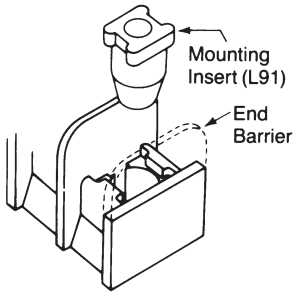
E=Open end positions, with mounting inserts, with end barriers

F=Open end positions, without mounting inserts, without end barriers

G=Open end positions, with mounting inserts, without end barriers

M=Open end positions, without mounting inserts, with end barriers

P=All positions filled with contacts, with end barriers



E No. of Circuits (Not Positions)
Must conform to mounting options

02 to **32** circuits (P & H mounting)

02 to **27** circuits (M, E, F & G mounting)

F Terminal Style

01=Solder Tail

02=Printed Circuit Pin

03=Non-Feed Through (with C base only)

04=Extended Printed Circuit Pin

05=Quick Connects

06=90° bend, .46" x .11" (with F base only)

07=Wire Wrap

08=90° bend, .75" x .11" (with F base only)

12=90° bend, .21" x .65"

13=90° bend, .36" x .50"

14=90° bend, .41" x .16" (with F base only)

15=90° bend, .51" x .35"

16=90° bend, .32" x .25" (with F base only)

G Top Hardware Options

00=No top hardware (Separately packaged binding head screws supplied at no cost)

01=Bright zinc and chromate plated steel binding head screw

02=Bright zinc and chromate plated steel screw and captive clamp - Do not order with other top hardware

03=Stainless steel binding head screw

04=Nickel plated brass binding head screw

09=Nickel plated brass screw and captive clamp - Do not order with other top hardware

80=Single-sided solder tab

81=Double-sided solder tab

Quick-Connect Blades

(supplied with 01 screw)

.250 wide x.032 thick	.187 wide x.020 thick
20	40=
21	41=
22	42=
23	43=
24	44=
25	45=
26	46=
27	47=
28	48=
29	49=
30	50=
31	51=
32	52=
33	53=
34	54=
35	55=
36	56=

H Circuit Identification Options

11 =	12345...
12 =	...54321
13 =	1 2 3 4 5 . . .
14 =	. . . 5 4 3 2 1
15 =	12345...
16 =	...54321

LR25557 E63810

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Hong Kong: 852-2735-1628
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Note: All part numbers are RoHS Compliant.

0.4375” [11.1] Pitch, Series SSB7 (Continued)

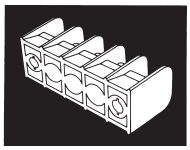
Contact Spacing Options:

.4375 in (7/16") Spacing

Extra thick barriers provide higher voltage rating. Up to 27 ckts. (25 circuits for end mounted blocks)

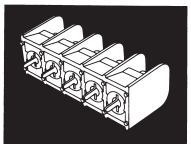
Base Options:

Closed Base



Catalog Letter Code: C. For terminal junction-blocks requiring top connections only. Useful in applications requiring single point circuit terminations or circuit completion via top mounted, single- and two-sided quick-connects. Replace double-row barrier strips.

Flat Base

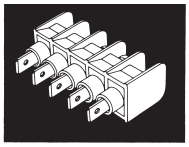


Catalog Letter Code: F. Lends itself most readily to applications where direct top-to-bottom feed-through is required with no special requirement for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.

Raised Base

Catalog Letter Code R. Standoffs between each circuit raise block .030" above mounting surface to allow flux and solvents to drain during soldering operations. Available only with 02 and 04 bottom terminals.

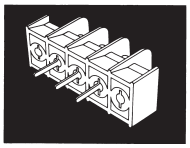
Turret Base



Catalog Letter Code: T. Combines top-to-bottom feed-through with bottom-side circuit isolation for panels up to .126" thick. Turret bases are available with the following terminals: solder tail, quick connect, machine wrap, extended circuit board terminal, and right-angle.

Mounting Options:

End Position Mounting



Catalog Letter Codes: E, F, G or M. Supplied without contacts in end sections to allow installer to mount blocks with screws in end section holes. Base of block will support mounting screws (Codes F & M). Also available with mounting inserts installed in end mounting holes to raise mounting screw heads to the level of other top hardware (Codes E & G).

Without End Barriers

Catalog Letter Codes: F, G & H. Facilitates mounting-screw access when end sections are used for mounting.

Direct Mounting

Catalog Letter Codes: P & H. SSBs may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.

Direct mounting is also possible with turret base models using press-on retaining clips (Catalog No. L97, Part Number 1437661-7) on turrets.

Hardware Options

7C1xxx—Safety cover, see page 175

QC2x—.250 Quick connects, see page 176

QC4x—.187 Quick connects, see page 176

ST80—Single sided solder tabs, see page 176

1776090-x—Extra long Quick connects, see page 176

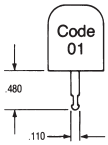
J7—Jumpers, see page 177

L91—Mounting insert, see page 178

L92—Angle bracket, see page 178

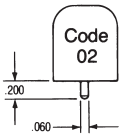
Terminal Style:

Solder Tail



Catalog Number Code: 01. For applications requiring a wrapped solder connection.

Printed Circuit Pin

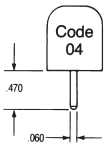


Catalog Number Code: 02. Designed specifically for mounting on .063" thick circuit board. Special, readily solderable plating permits good fillet development in automated soldering processes.

Non-Feed-Through

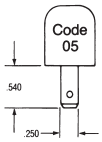
Catalog Number Code: 03. With closed base option only.

Extended Printed Circuit Pin



Catalog Number Code: 04. Useful where extra length is needed, as in thicker printed circuit boards or single-wrap connections.

Quick Connect



Catalog Number Code: 05. .250 in. wide x .032" thick blades accept .250" female quick connects.

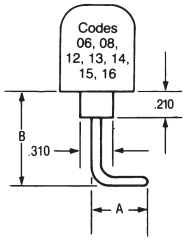
LR25557 E63810

Note: All part numbers are RoHS Compliant.

0.4375" [11.1] Pitch, Series SSB7 (Continued)

Mounting Position:

Right-Angle



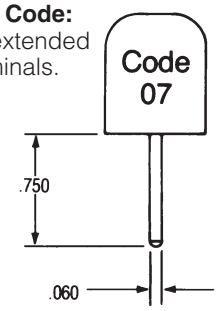
Catalog Number Codes: 06, 08, 12, 13, 14, 15, 16.

Seven variations of right-angle contacts are available. Designed for circuit board and panel applications, this option saves space when printed circuit boards are stacked closely together. It provides access to top connections in restricted spaces. Mount with angle brackets. (Catalog No. L92).

Catalog No. Code	A in.	B in.
06*	0.46	0.11
08*	0.75	0.11
12	0.21	0.65
13	0.36	0.50
14*	0.41	0.16
15	0.51	0.35
16*	0.32	0.25

*Not available with turret base

Wire Wrap



Catalog Number Code: 07. Longer than extended circuit board terminals. Post alignment is compatible with tolerances required for automatic wire wrapping equipment. Post dimensions are compatible with standard wire wrapping bits.

Top Hardware Options:

Binding Head Screws

In most applications, binding head screws will provide excellent wire retention because of exclusive wire locking tabs. These binding head screws are available in 3 materials identified by codes 01, 02, and 03.

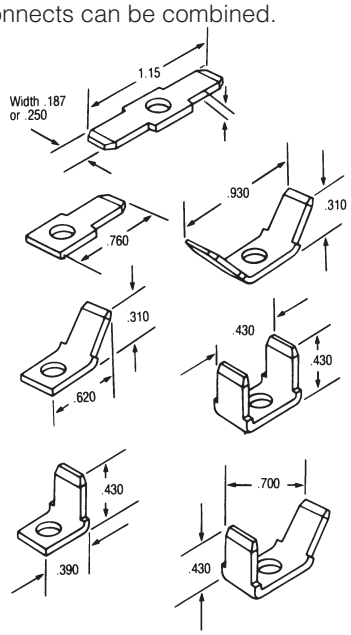
Catalog Number Code:
01 Bright Zinc and Chromate Plated Steel
02 Stainless Steel
03 Nickel Plated Brass

Captive Clamp

For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Scews have a unique Phil-slot design accepting either Phillips-head or straight screwdriver. Code 02 screw is Bright Zinc and Chromate plated steel. Code 09 screw is Nickel plated Brass.

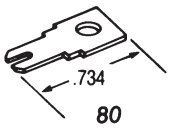
Catalog Number Code:
02 Bright Zinc and Chromate Plated Steel
09 Nickel Plated Brass

Catalog Number Codes: 20 through 56. A complete selection of .187" and .250" quick-connect blades are available for connecting wire terminated with female quick connects. Single-and double-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



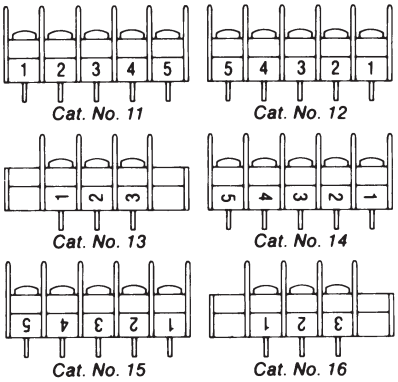
Solder Tabs

Catalog Number Code: 80. Single-sided, slotted solder tabs are available for making wrapped solder connections on the top side of SSBs.



Circuit Identification Options:

Catalog Number Codes: 11 through 16. SSB blocks may be ordered with circuit identification numbers in white on the molding in six different variations. Custom markings are available on special order.



Molding Material Options:

The standard SSB molding material is UL94V-2 polypropylene. Consult Technical Support for other materials available on special order.

Molding Color Options:

SSB blocks are stocked in black. Consult Technical Support for availability of other colors.

Dimensions are in millimeters and inches unless otherwise specified.

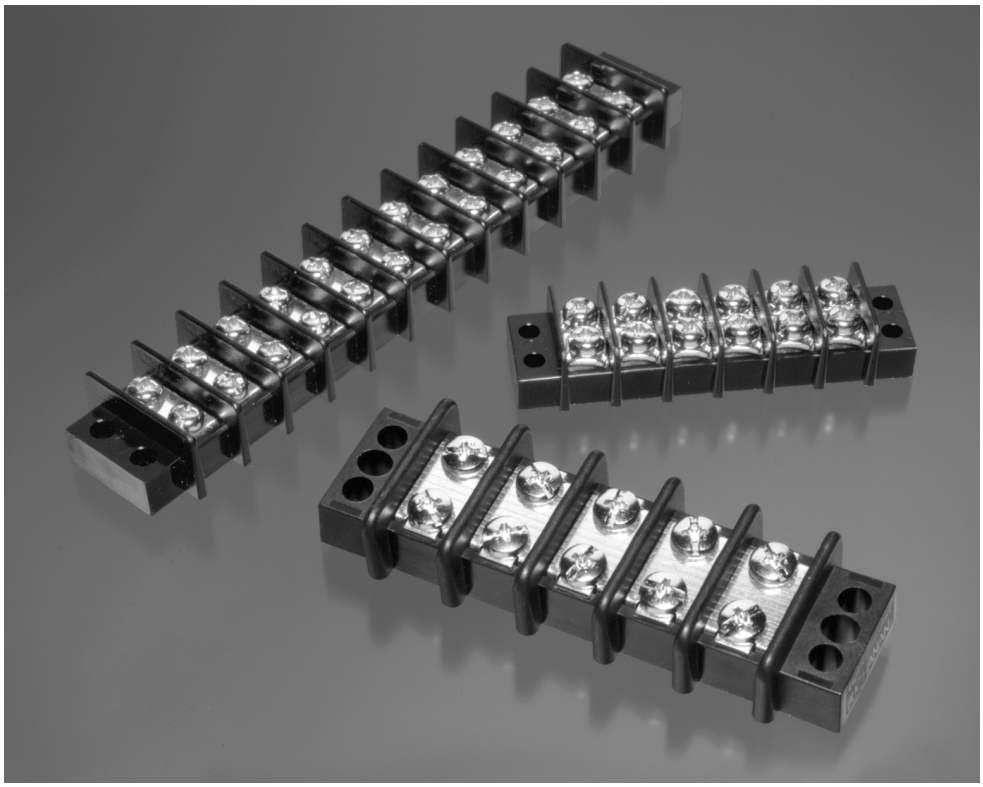
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips



Product Facts

- Double-row, dual barrier strips for wire-to-wire applications. These parts also allow end users to complete the wiring to a separate screw without disturbing the factory wiring.
- Available with either binding head screws or wire clamp
- Increased current-carrying capability

Applications

- Industrial Controls
- Test Equipment
- HVAC
- Power Supplies
- Traffic Signals
- Telecom

Key Features

- Closed bottom design allows for mounting direct to sheet metal panel
- Molded to length
- Accessories such as Quick-Connect Tabs and Jumpers available
- Wire-to-wire termination:
  - .374 [9.5] centerline: Up to 30 positions
  - .433 [11.0] centerline: Up to 26 positions
  - .437 [11.1] centerline: Up to 26 positions
  - .563 [14.3] centerline: Up to 18 positions
- RoHS Compliant

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Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

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USA: 1-800-522-6752
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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips (Continued)

.374 [9.5] Centerline

Material & Finish

Insulator Body—UL94V-0, thermoplastic, black

Terminals—Brass, tin plated

Screw—#6-32 steel, nickel plated

Mechanical Properties

Screw Torque—12 in-lb

Electrical Properties

Current Rating—20 A, 300 VAC

Wire Range—12-22 AWG

Withstanding Voltage—2000 VAC min.

Environmental Properties

Operating Temperature—-40˚F to +221˚F [-40˚C to +120˚C]

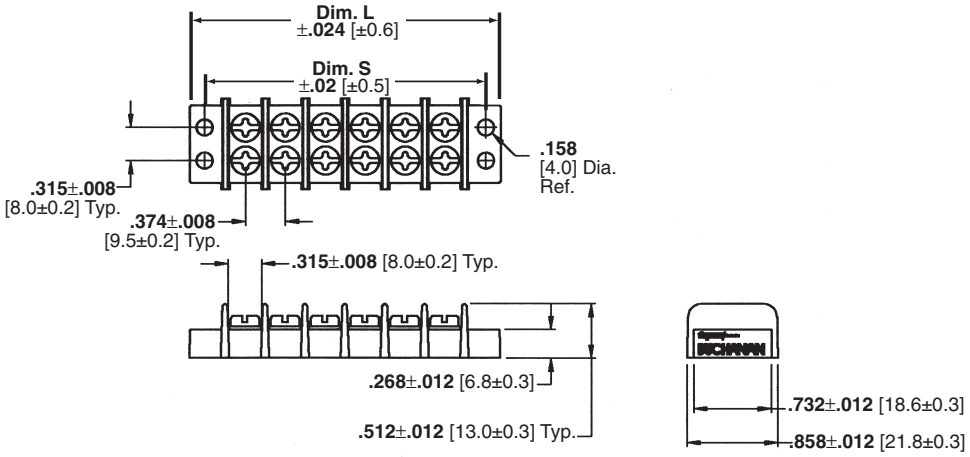
Hardware Options

J6140—Spade jumper, see page 177

J6240—Flanged spade jumper, see page 177

J6340—Ring tongue jumper, see page 177

J6—Spade jumper, see page 177



No. of Positions	Dimension		Part Numbers	
	L	S	w/Binding Head Screws	w/Wire Clamp Screws
2	**1.42** [036.2]	**1.13** [028.7]	1546306-2	1546307-2
3	**1.80** [045.7]	**1.50** [038.2]	1546306-3	1546307-3
4	**2.17** [055.2]	**1.88** [047.7]	1546306-4	1546307-4
5	**2.55** [064.7]	**2.25** [057.2]	1546306-5	1546307-5
6	**2.92** [074.2]	**2.63** [066.7]	1546306-6	1546307-6
7	**3.30** [083.7]	**3.00** [076.2]	1546306-7	1546307-7
8	**3.67** [093.2]	**3.37** [085.7]	1546306-8	1546307-8
9	**4.05** [103.0]	**3.75** [095.2]	1546306-9	1546307-9
10	**4.41** [112.0]	**4.13** [105.0]	1-1546306-0	1-1546307-0
11	**4.80** [122.0]	**4.49** [114.0]	1-1546306-1	1-1546307-1
12	**5.16** [131.0]	**4.88** [124.0]	1-1546306-2	1-1546307-2
13	**5.55** [141.0]	**5.24** [133.0]	1-1546306-3	1-1546307-3
14	**5.91** [150.0]	**5.63** [143.0]	1-1546306-4	1-1546307-4
15	**6.30** [160.0]	**5.98** [152.0]	1-1546306-5	1-1546307-5
16	**6.65** [169.0]	**6.38** [162.0]	1-1546306-6	1-1546307-6
17	**7.05** [179.0]	**6.73** [171.0]	1-1546306-7	1-1546307-7
18	**7.40** [188.0]	**7.13** [181.0]	1-1546306-8	1-1546307-8
19	**7.79** [198.0]	**7.48** [190.0]	1-1546306-9	1-1546307-9
20	**8.15** [207.0]	**7.87** [200.0]	2-1546306-0	2-1546307-0
21	**8.54** [217.0]	**8.23** [209.0]	2-1546306-1	2-1546307-1
22	**8.90** [226.0]	**8.62** [219.0]	2-1546306-2	2-1546307-2
23	**9.29** [236.0]	**8.98** [228.0]	2-1546306-3	2-1546307-3
24	**9.65** [245.0]	**9.37** [238.0]	2-1546306-4	2-1546307-4
25	**10.04** [255.0]	**9.72** [247.0]	2-1546306-5	2-1546307-5
26	**10.39** [264.0]	**10.12** [257.0]	2-1546306-6	2-1546307-6
27	**10.79** [274.0]	**10.47** [266.0]	2-1546306-7	2-1546307-7
28	**11.14** [283.0]	**10.87** [276.0]	2-1546306-8	2-1546307-8
29	**11.54** [293.0]	**11.22** [285.0]	2-1546306-9	2-1546307-9
30	**11.89** [302.0]	**11.61** [295.0]	3-1546306-0	3-1546307-0

Dimensions are in millimeters and inches unless otherwise specified.

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C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips (Continued)

.433 [11.0] Centerlines

Material & Finish

Insulator Body—UL94V-0, thermoplastic, black

Terminals—Brass, tin plated

Screw—#6-32 steel, nickel plated

Mechanical Properties

Screw Torque—12 in-lb

Electrical Properties

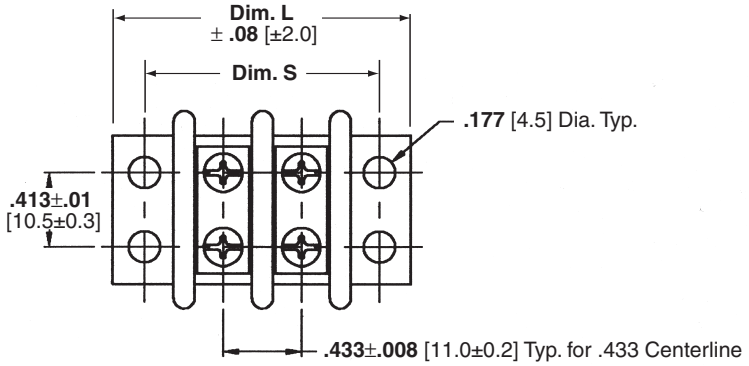
Current Rating—20 A, 300 VAC

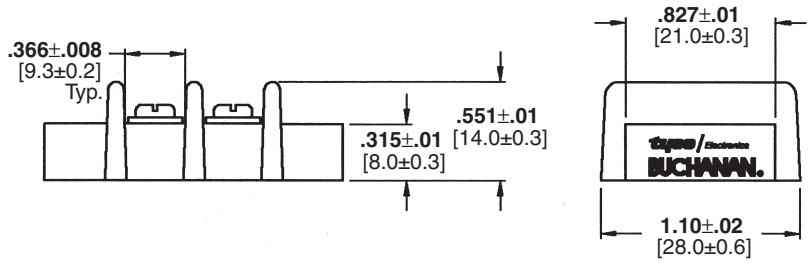
Wire Range—14-22 AWG

Withstanding Voltage—2000 VAC min.

Environmental Properties

Operating Temperature—-40˚F to +221˚F [-40˚C to +120˚C]





No. of Positions	Dimension		Part Numbers	
	L	S	w/Binding Head Screws	w/Wire Clamp Screws
2	**1.65** [41.8]	**1.264** [32.1]	1546481-2	1546477-2
3	**2.08** [52.8]	**1.697** [43.1]	1546481-3	1546477-3
4	**2.51** [63.8]	**2.130** [54.1]	1546481-4	1546477-4
5	**2.94** [74.8]	**2.563** [65.1]	1546481-5	1546477-5
6	**3.38** [85.8]	**2.996** [76.1]	1546481-6	1546477-6
7	**3.81** [96.8]	**3.429** [87.1]	1546481-7	1546477-7
8	**4.24** [107.8]	**3.862** [98.1]	1546481-8	1546477-8
9	**4.68** [118.8]	**4.295** [109.1]	1546481-9	1546477-9
10	**5.11** [129.8]	**4.728** [120.1]	1-1546481-0	1-1546477-0
11	**5.54** [140.8]	**5.161** [131.1]	1-1546481-1	1-1546477-1
12	**5.98** [151.8]	**5.594** [142.1]	1-1546481-2	1-1546477-2
13	**6.41** [162.8]	**6.028** [153.1]	1-1546481-3	1-1546477-3
14	**6.84** [173.8]	**6.461** [164.1]	1-1546481-4	1-1546477-4
15	**7.27** [184.8]	**6.894** [175.1]	1-1546481-5	1-1546477-5
16	**7.71** [195.8]	**7.327** [186.1]	1-1546481-6	1-1546477-6
17	**8.14** [206.8]	**7.760** [197.1]	1-1546481-7	1-1546477-7
18	**8.57** [217.8]	**8.193** [208.1]	1-1546481-8	1-1546477-8
19	**9.01** [228.8]	**8.626** [219.1]	1-1546481-9	1-1546477-9
20	**9.44** [239.8]	**9.059** [230.1]	2-1546481-0	2-1546477-0
21	**9.87** [250.8]	**9.492** [241.1]	2-1546481-1	2-1546477-1
22	**10.31** [261.8]	**9.925** [252.1]	2-1546481-2	2-1546477-2
23	**10.74** [272.8]	**10.358** [263.1]	2-1546481-3	2-1546477-3
24	**11.17** [283.8]	**10.791** [274.1]	2-1546481-4	2-1546477-4
25	**11.61** [294.8]	**11.224** [285.1]	2-1546481-5	2-1546477-5
26	**12.04** [305.8]	**11.657** [296.1]	2-1546481-6	2-1546477-6

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips (Continued)

.437 [11.1] Centerlines

Material & Finish

Insulator Body—UL94V-0, thermoplastic, black

Terminals—Brass, tin plated

Screw—#6-32 steel, nickel plated

Mechanical Properties

Screw Torque—12 in-lb

Electrical Properties

Current Rating—20 A, 300 VAC

Wire Range—14-22 AWG

Withstanding Voltage—2000 VAC min.

Environmental Properties

Operating Temperature—-40˚F to +221˚F [-40˚C to +120˚C]

Hardware Options

1776110-x—Single-sided Quick Connects, see page 176

1776057-x—Two-sided Quick Connects, see page 176

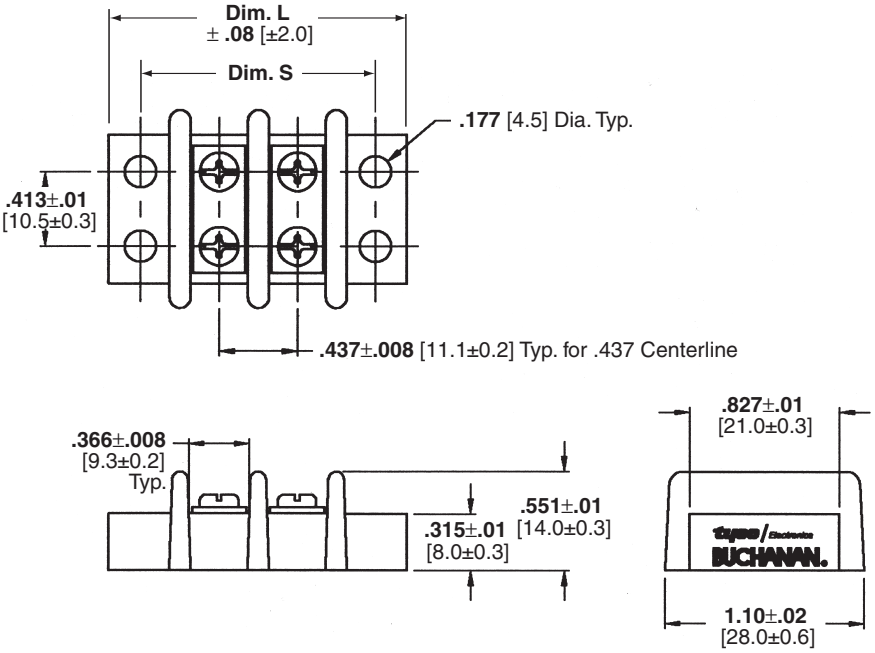
J7—Spade jumper, see page 177

J7140—Spade jumper, see page 177

J7240—Flanged jumper, see page 177

J7340—Ring tongue jumper, see page 177

J76—Over-the-barrier jumper, see page 177



No. of Positions	Dimension L	Dimension S	Part Numbers w/Binding Head Screws	Part Numbers w/Wire Clamp Screws
2	**1.62** [41.2]	**1.264** [32.1]	1546670-2	1546671-2
3	**2.06** [52.3]	**1.697** [43.1]	1546670-3	1546671-3
4	**2.50** [63.4]	**2.130** [54.1]	1546670-4	1546671-4
5	**2.93** [74.5]	**2.563** [65.1]	1546670-5	1546671-5
6	**3.37** [85.6]	**2.996** [76.1]	1546670-6	1546671-6
7	**3.81** [96.7]	**3.429** [87.1]	1546670-7	1546671-7
8	**4.24** [107.8]	**3.862** [98.1]	1546670-8	1546671-8
9	**4.68** [118.9]	**4.295** [109.1]	1546670-9	1546671-9
10	**5.12** [130.0]	**4.728** [120.1]	1-1546670-0	1-1546671-0
11	**5.55** [141.1]	**5.161** [131.1]	1-1546670-1	1-1546671-1
12	**5.99** [152.2]	**5.594** [142.1]	1-1546670-2	1-1546671-2
13	**6.43** [163.3]	**6.028** [153.1]	1-1546670-3	1-1546671-3
14	**6.87** [174.4]	**6.461** [164.1]	1-1546670-4	1-1546671-4
15	**7.30** [185.5]	**6.894** [175.1]	1-1546670-5	1-1546671-5
16	**7.74** [196.6]	**7.327** [186.1]	1-1546670-6	1-1546671-6
17	**8.18** [207.7]	**7.760** [197.1]	1-1546670-7	1-1546671-7
18	**8.61** [218.8]	**8.193** [208.1]	1-1546670-8	1-1546671-8
19	**9.05** [229.9]	**8.626** [219.1]	1-1546670-9	1-1546671-9
20	**9.49** [241.0]	**9.059** [230.1]	2-1546670-0	2-1546671-0
21	**9.93** [252.1]	**9.492** [241.1]	2-1546670-1	2-1546671-1
22	**10.36** [263.2]	**9.925** [252.1]	2-1546670-2	2-1546671-2
23	**10.80** [274.3]	**10.358** [263.1]	2-1546670-3	2-1546671-3
24	**11.24** [285.4]	**10.791** [274.1]	2-1546670-4	2-1546671-4
25	**11.67** [296.5]	**11.224** [285.1]	2-1546670-5	2-1546671-5
26	**12.11** [307.6]	**11.657** [296.1]	2-1546670-6	2-1546671-6

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips (Continued)

.563 [14.3] Centerline

Material & Finish

Insulator Body—UL94V-0, thermoplastic, black

Terminals—Brass, tin plated

Screw—M4.0 steel, nickel plated

Mechanical Properties

Screw Torque—16 in-lb

Electrical Properties

Current Rating—30 A, 300 VAC

Wire Range—10-22 AWG

Withstanding Voltage—2000 VAC min.

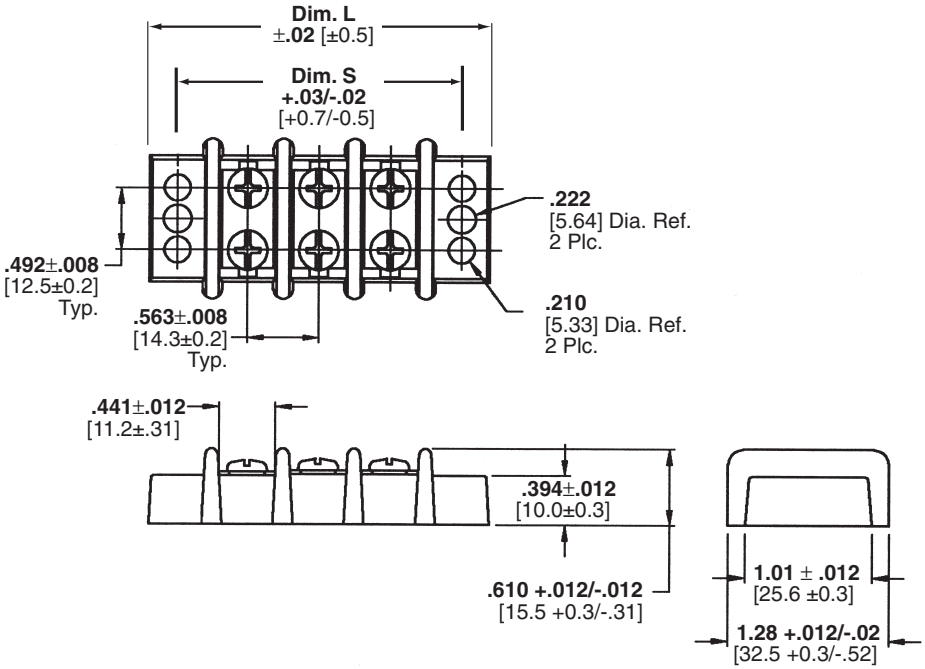
Environmental Properties

Operating Temperature—-40˚F to +284˚F [-40˚C to +140˚C]

Hardware Options

1776174-x—Single-sided Quick Connects, see page 176

1776173-x—Two-sided Quick Connects, see page 176



No. of Positions	Dimension		Part Numbers	
	L	S	w/Wire Clamp Screws	w/Binding Head Screws
2	**2.13** [54.0]	**1.69** [42.9]	1546311-2	1546310-2
3	**2.69** [68.3]	**2.25** [57.2]	1546311-3	1546310-3
4	**3.25** [82.6]	**2.81** [71.5]	1546311-4	1546310-4
5	**3.81** [96.9]	**3.38** [85.8]	1546311-5	1546310-5
6	**4.38** [111.2]	**3.94** [100.1]	1546311-6	1546310-6
7	**4.94** [125.5]	**4.50** [114.4]	1546311-7	1546310-7
8	**5.50** [139.8]	**5.07** [128.7]	1546311-8	1546310-8
9	**6.08** [154.1]	**5.63** [143.0]	1546311-9	1546310-9
10	**6.63** [168.4]	**6.19** [157.3]	1-1546311-0	1-1546310-0
11	**7.19** [182.7]	**6.76** [171.6]	1-1546311-1	1-1546310-1
12	**7.75** [197.0]	**7.32** [185.9]	1-1546311-2	1-1546310-2
13	**8.32** [211.3]	**7.88** [200.2]	1-1546311-3	1-1546310-3
14	**8.88** [225.6]	**8.44** [214.5]	1-1546311-4	1-1546310-4
15	**9.44** [239.9]	**9.01** [228.8]	1-1546311-5	1-1546310-5
16	**10.02** [254.5]	**9.57** [243.1]	1-1546311-6	1-1546310-6
17	**10.57** [268.5]	**10.13** [257.4]	1-1546311-7	1-1546311-7
18	**11.13** [282.8]	**10.70** [271.7]	1-1546311-8	1-1546310-8

Dimensions are in millimeters and inches unless otherwise specified.

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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Double-Row, Dual-Barrier Strips w/o Washer

.563 [14.3] Centerline

Material & Finish

Insulator Body—UL94V-0, thermoplastic, black

Terminals—Brass, tin plated

Screw—M4.0 steel, nickel plated

Mechanical Properties

Screw Torque—14 in-lb

Electrical Properties

Current Rating—30 A, 600 VAC

Wire Range—10-22 AWG

Withstanding Voltage—2000 VAC min.

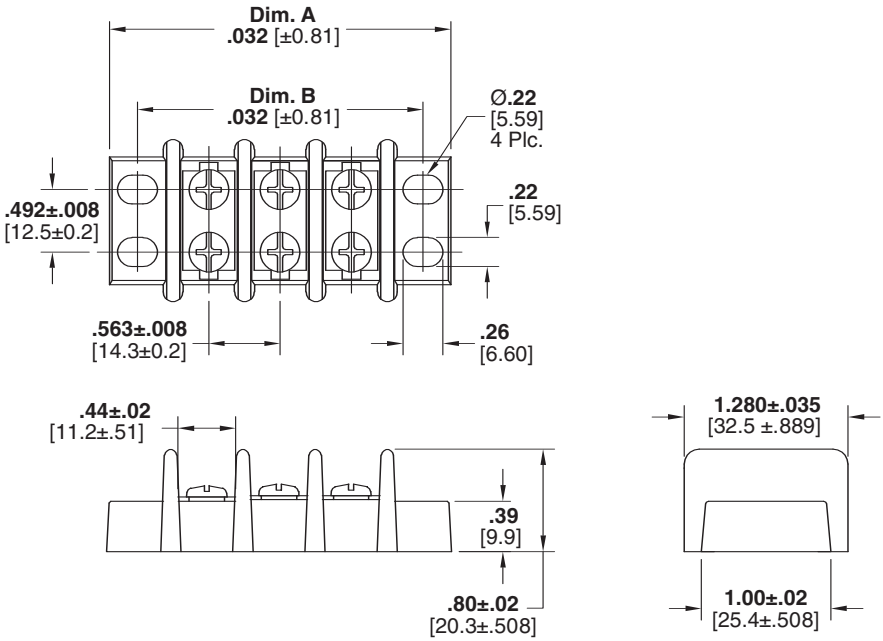
Environmental Properties

Operating Temperature—-40˚F to +120˚F [-40˚C to +49˚C]

Hardware Options

1776174-x—Single-sided Quick Connects, see page 176

1776173-x—Two-sided Quick Connects, see page 176



No. of Positions	Dimension		Part Numbers	
	L	S	w/Wire Clamp Screws	w/Binding Head Screws
2	**2.13** [54.0]	**1.69** [42.9]	1776544-2	1986158-2
3	**2.69** [68.3]	**2.25** [57.2]	1776544-3	1986158-3
4	**3.25** [82.6]	**2.81** [71.5]	1776544-4	1986158-4
5	**3.81** [96.9]	**3.38** [85.8]	1776544-5	1986158-5
6	**4.38** [111.2]	**3.94** [100.1]	1776544-6	1986158-6
7	**4.94** [125.5]	**4.50** [114.4]	1776544-7	1986158-7
8	**5.50** [139.8]	**5.07** [128.7]	1776544-8	1986158-8
9	**6.08** [154.1]	**5.63** [143.0]	1776544-9	1986158-9
10	**6.63** [168.4]	**6.19** [157.3]	1-176544-0	1-1986158-0
11	**7.19** [182.7]	**6.76** [171.6]	1-176544-1	1-1986158-1
12	**7.75** [197.0]	**7.32** [185.9]	1-176544-2	1-1986158-2
13	**8.32** [211.3]	**7.88** [200.2]	1-176544-3	1-1986158-3
14	**8.88** [225.6]	**8.44** [214.5]	1-176544-4	1-1986158-4
15	**9.44** [239.9]	**9.01** [228.8]	1-176544-5	1-1986158-5
16	**10.02** [254.5]	**9.57** [243.1]	1-176544-6	1-1986158-6
17	**10.57** [268.5]	**10.13** [257.4]	1-176544-7	1-1986158-7
18	**11.13** [282.8]	**10.70** [271.7]	1-176544-8	1-1986158-8

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

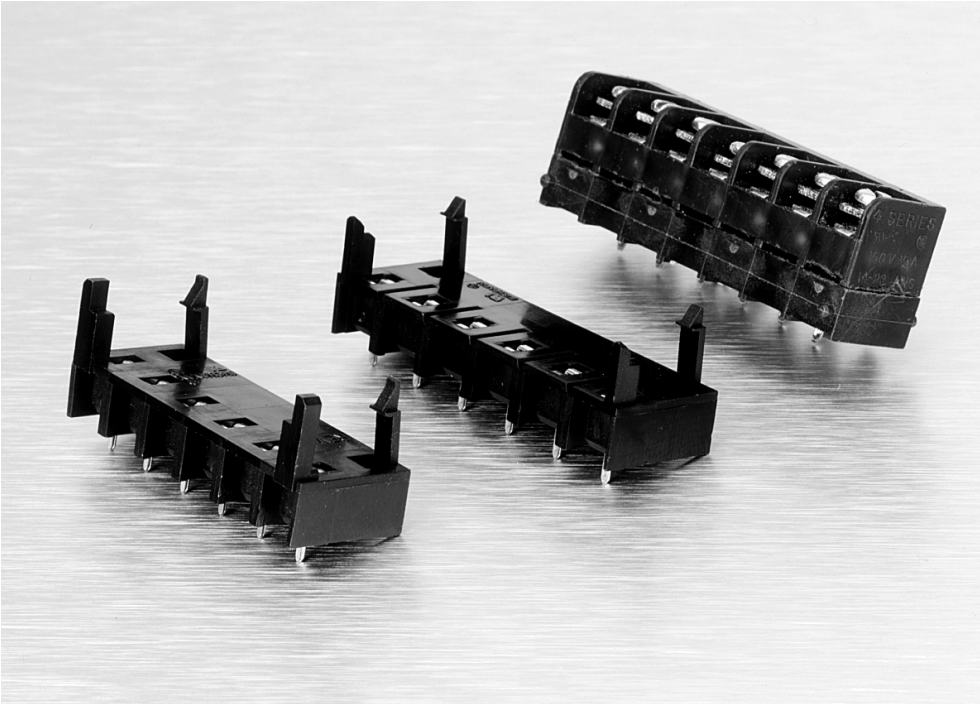
Barrier Strip Sockets

Mateability for the socket line is given below:

Socket Series	Connector Series
USB	RSB3, SSB3
RSB6B	RSB6

Product Facts

- **End-to-end mounting of USB sockets maintain circuit spacing: Two 12-circuit USB sockets can mate with one 24-circuit SSB3 or RSB3.**
- **Secure mating with built-in locking arms**



This unique plug-in socket line allows quick connection of circuits simultaneously without the use of tools.

They are designed to be wave-soldered to a PC board, after which the connector is plugged into the socket.

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

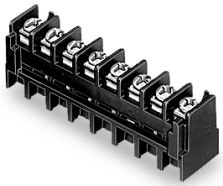
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series USB Socket (for Series RSB3 and SSB3)

USB3B08S & SSB3FP080202



Material & Finish

Housing Material—Polyamide, Type 6/6

Flammability—UL94V-2

Color—Black

Terminals Contact—Copper alloy, bright tin plating

Pin—Copper alloy, bright tin plating

Mechanical Properties

Pitch (Terminal Spacing)—0.325" [8.26]

Recommended PCB Hole Dia.—.055" [1.40]

Pullout Force—5-7 lbs.

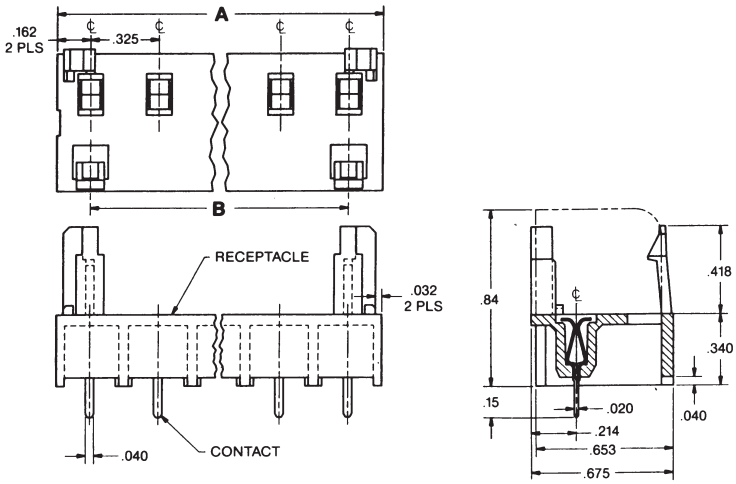
Electrical Properties

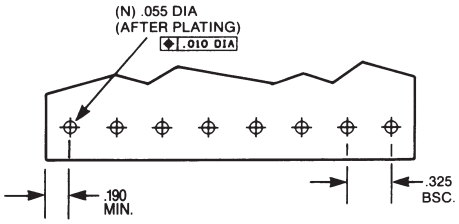
Ratings—UL Class B 10 Amps, 300V
CSA Type B 15 Amps, 300V
CSA Type D 10 Amps, 300V

Dielectric Withstand—3500V

Environmental Properties

Operating Temperature Range—-60°C to +105°C [-76°F to +221°F]





Recommended PCB Hole Pattern

No. of Circuits	Dimensions A	Dimensions B	Dual-Barrier Mating Strip Catalog Number	Tri-Barrier Mating Strip Catalog Number	Catalog Number
2	0.650	0.325	SSB3FP0202...	RSB3VP0212...	USB3B02S
3	0.975	0.650	SSB3FP0302...	RSB3VP0312...	USB3B03S
4	1.300	0.975	SSB3FP0402...	RSB3VP0412...	USB3B04S
5	1.625	1.300	SSB3FP0502...	RSB3VP0512...	USB3B05S
6	1.950	1.625	SSB3FP0602...	RSB3VP0612...	USB3B06S
7	2.275	1.950	SSB3FP0702...	RSB3VP0712...	USB3B07S
8	2.600	2.275	SSB3FP0802...	RSB3VP0812...	USB3B08S
9	2.925	2.600	SSB3FP0902...	RSB3VP0912...	USB3B09S
10	3.250	2.925	SSB3FP1002...	RSB3VP1012...	USB3B10S
11	3.575	3.250	SSB3FP1102...	RSB3VP1112...	USB3B11S
12	3.900	3.575	SSB3FP1202...	RSB3VP1212...	USB3B12S
13	4.225	3.900	SSB3FP1302...	RSB3VP1312...	USB3B13S
14	4.550	4.225	SSB3FP1402...	RSB3VP1412...	USB3B14S

Note: See page 165 to complete mating Tri-Barrier Strip Catalog Number.
See page 169 to complete mating Dual-Barrier Strip Catalog Number.

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Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

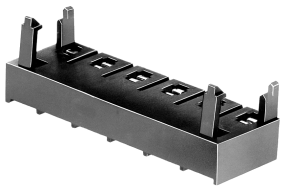
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series RSB6B Socket (for Series RSB6 Tri-Barrier)

RSB6B06S



Material & Finish

Housing Material—Polyamide
Flammability—UL94V-2
Color—Black
Terminals—Copper alloy, bright tin plating
Pin—Copper alloy, bright tin plating

Mechanical Properties

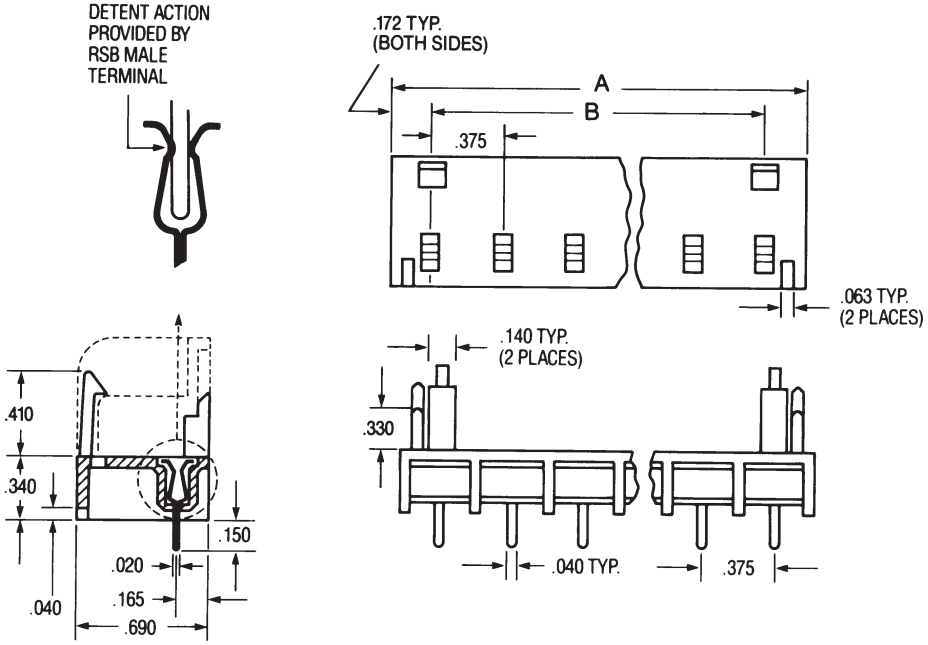
Pitch (Terminal Spacing)—.375 in [9.53]
Recommended PCB Hole Dia.—.062" [1.57]

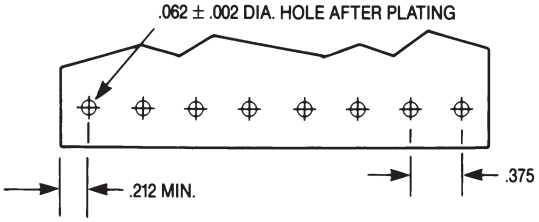
Electrical Properties

Ratings—UL Class B 20 Amps, 300V
CSA Type B 10 Amps, 300V
CSA Type D 5 Amps, 600V
Dielectric Withstand—3500V

Environmental Properties

Operating Temperature Range—-60°C to +105°C [-76°F to +221°F]





Recommended PCB Hole Pattern

No. of Circuits	Dimensions A	Dimensions B	Catalog Number
02	0.720	0.375	RSB6B02S
03	1.094	0.750	RSB6B03S
04	1.469	1.125	RSB6B04S
05	1.844	1.500	RSB6B05S
06	2.219	1.875	RSB6B06S
07	2.594	2.250	RSB6B07S
08	2.869	2.625	RSB6B08S
09	3.244	3.000	RSB6B09S
10	3.720	3.375	RSB6B10S

Note: RSB6 Tri-Barrier Blocks should be ordered with Number 12 Terminal Style (printed circuit pin, V mounting) when used in combination with this plug-in socket. See page 172 for ordering information.

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Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
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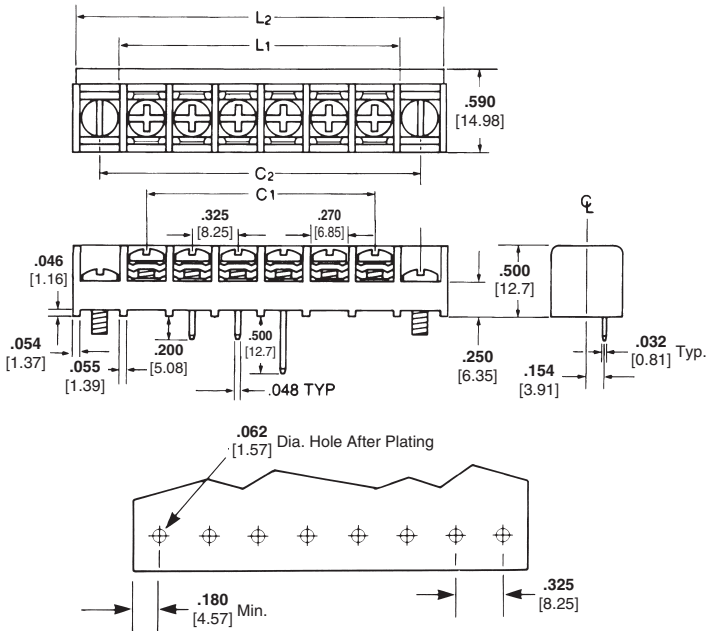
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series RSB3

RSB3VP061202



Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-2
Color—Black
Terminals—Brass w/bright Tin plating
Screws—Steel w/Zinc + Chromate plating

Mechanical Properties

Pitch (Terminal Spacing)—.325 in [8.26]
Screw Size—6-32
Recommended PCB Hole Dia.—0.062"
Wire Strip Length—.31 in [7.87]
Recommended Tightening Torque—9 in-lbs.
Recommended Screwdrivers—Stanley 1006-4, Sears Craftsman 41581, Any #2 Phillips-Head
Wire Lug Width (Max.)—.265 in [6.73]

Electrical Properties

Maximum Current—15A
Operating Voltage—300V
Wire Range—#14-26 AWG
Dielectric Withstand—4000V

Environmental Properties

Operating Temperature Range—-60°C to +105°C [-76°F to +221°F]

For mating socket, see pg. 162.

Computing Barrier Block Lengths

Direct Mounting—Use C1 and L1 for Mounting Option "P".
End Position Mounting—Use C2 and L2 for Mounting Option "M".

Dimensions

Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* in.
02	0.325	0.704	0.975	1.354
03	0.650	1.029	1.300	1.679
04	0.975	1.354	1.625	2.004
05	1.300	1.679	1.950	2.329
06	1.625	2.004	2.275	2.654
07	1.950	2.329	2.600	2.979
08	2.275	2.654	2.925	3.304
09	2.600	2.797	3.250	3.629
10	2.925	3.304	3.575	3.954
11	3.250	3.629	3.900	4.279
12	3.575	3.954	4.225	4.604
13	3.900	4.279	4.550	4.929
14	4.225	4.604	4.875	5.254
16	4.875	5.254	5.525	5.904
17	5.200	5.579	5.850	6.229
18	5.525	5.904	6.175	7.554
19	5.850	6.229	6.500	6.879
20	6.175	6.554	6.825	7.204
21	6.500	6.879	7.150	7.529
22	6.825	7.204	7.475	7.854
23	7.150	7.529	7.800	8.179
24	7.475	7.854	8.125	8.504
25	7.800	8.179	8.450	8.829
26	8.125	8.504	8.775	9.154
27	8.450	8.829	9.100	9.479
28	8.775	9.154	9.425	9.804
29	9.100	9.479	9.750	10.129
30	9.425	9.804	10.075	10.454
31	9.750	10.129	10.400	10.779
32	10.075	10.454	10.725	11.104
33	10.400	10.779	11.050	11.429
34	10.725	11.104	11.357	11.754
35	11.050	11.429	—	—
36	11.357	11.754	—	—

*L2 and L1 are based on molded-to-length strips.

LR25557 E63810

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series RSB3 (Continued)

Ordering Information

RSB	3	V	P	06	12	02	11
A	B	C	D	E	F	G	H

A Single Screw Tri-Barrier Strip RSB

B Contact Spacing (Center-to-Center)
3=.325 in.

C Mounting Position
V=Vertical Mounting

D End Contact Mounting Options
M=End Position Mounting: open end positions with barriers.
P=Direct Mounting: all positions filled with contacts, with barriers

E No. of Circuits (Not Positions)
02 through **34** for M Option
02 through **36** for P Option

F Terminal Style
12=Printed Circuit Pin for use with USB3 Series Socket
15=**Superseded by 4 PCR per page 125**
17=**Superseded by 4WWV, page 125**

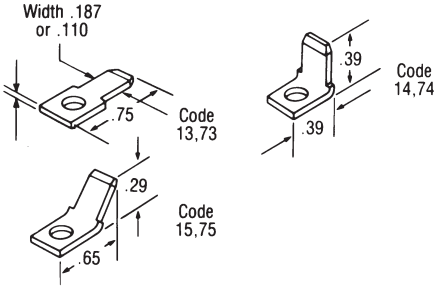
G Top Hardware Options
01=Bright zinc and chromate plated steel binding-head screw

02=Bright zinc and chromate plated steel screw and captive clamp – Do not order in combination with other top hardware.

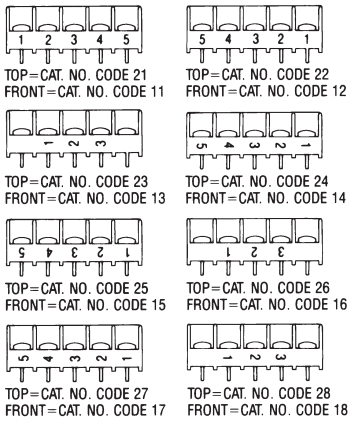
Quick-Connect Blades
(supplied with 01 screw)

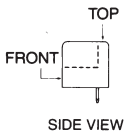
.110 wide x.020 thick	.187 wide x.020 thick
13	73=
14	74=
15	75=

Catalog Number Codes: 13 through 15 and 73 through 75. A complete selection of .187" and .110" quick-connect blades for connecting wire terminated with female quick connects. Single-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



H Circuit Identification Options
Catalog Number Codes: 11 through 18 and 21 through 28. RSB3 blocks may be ordered with white circuit identification numbers on the molding in 16 variations. Custom markings available on special order.





For mating socket, see pg. 162.

LR25557 E63810

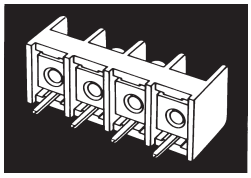
Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series RSB3 (Continued)

Mounting Position

Vertical Mounting

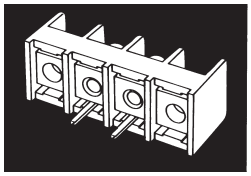
Catalog Letter Code: V. Used where direct top-to-bottom feed-through is required with no need for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



End Contact Mounting Options

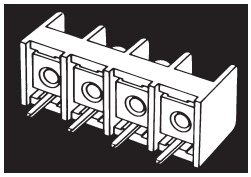
End Position Mounting

Catalog Letter Code: M. Supplied without contact in end sections to allow installer to mount blocks with screws in end section holes. Base of block will support #6 mounting screws.



Direct Mounting

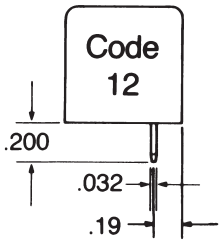
Catalog Letter Code: P. RSB3 may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



Terminal Style

Printed Circuit Pin

Catalog Number Code: 12. Designed specifically for use with our USB3 socket, page 162



Hardware Options

3C1xxx—Safety cover, see page 175
J3140—Jumpers, see page 177
3L02—Wire clamp screw, see page 178
3L01—Binding head screw, see page 178

LR25557 E63811

Dimensions are in millimeters and inches unless otherwise specified.

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USA: 1-800-522-6752
Canada: 1-905-470-4425
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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Engineering Notes

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

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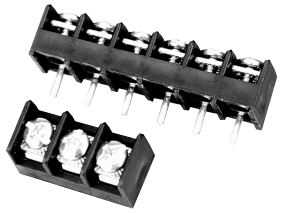
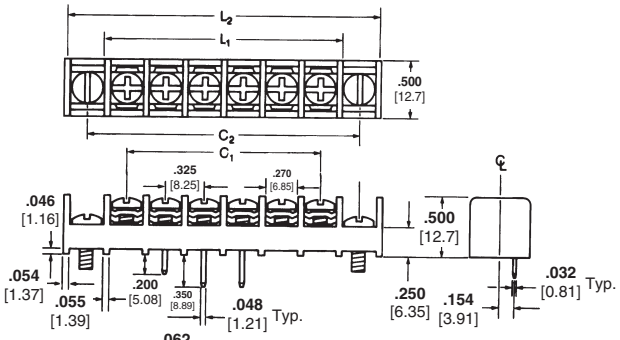
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

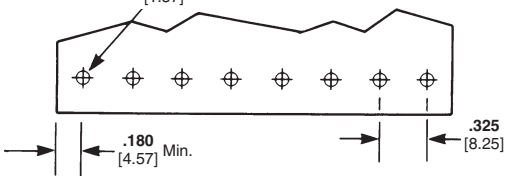
Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series SSB3

SSB3FP##0202







Recommended PCB Hole Pattern

Material & Finish

Housing Material—Polypropylene

Flammability—UL94V-2

Color—Black

Terminals—Brass, bright acid tin over copper plating

Screw—Steel w/ Zinc + Chromate plating

Mechanical Properties

Pitch (Terminal Spacing)—.325" [8.26]

Screw Size—6-32

Recommended PCB Hole Dia.—.062" [1.57]

Wire Strip Length—.31" [7.87]

Recommended Tightening Torque—9 in-lbs.

Recommended Screwdrivers—Stanley 1006-4, Sears Craftsman 41581, Any #2 Phillips Head.

Wire Lug Width (Max.)—.265" [6.73]

Electrical Properties

Ratings—UL Class B 20 Amps, 300V
UL Class C 20 Amps, 300V
UL Class D 10 Amps, 300V
CSA Type B 10 Amps, 300V
CSA Type D 10 Amps, 300V

Wire Range—#14-26 AWG

Dielectric Withstand—4500V

Environmental Properties

Operating Temperature Range—-60°C to +105°C [-76°F to +221°F]

Computing Barrier Block Lengths

Direct Mounting – Use C1 & L1 for Mounting Option "P".

End Position Mounting – Use C2 & L2 for Mounting Options "F" and "M".

For mating socket, see pg. 162.

Dimensions

Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* in.
02	0.325	0.704	0.975	1.354
03	0.650	1.029	1.300	1.679
04	0.975	1.354	1.625	2.004
05	1.300	1.679	1.950	2.329
06	1.625	2.004	2.275	2.654
07	1.950	2.329	2.600	2.979
08	2.275	2.654	2.925	3.304
09	2.600	2.979	3.250	3.629
10	2.925	3.304	3.575	3.954
11	3.250	3.629	3.900	4.279
12	3.575	3.954	4.225	4.604
13	3.900	4.279	4.550	4.929
14	4.225	4.604	4.875	5.254
15	4.550	4.949	5.200	5.579
16	4.875	5.254	5.525	5.579
17	5.200	5.579	5.850	6.229
18	5.525	5.904	6.175	7.554
19	5.850	6.229	6.500	6.879
20	6.2175	6.554	6.825	7.204
21	6.500	6.879	7.150	7.529
22	6.825	7.204	7.475	7.854
23	7.150	7.529	7.800	8.179
24	7.475	7.854	8.125	8.504
25	7.800	8.179	8.450	8.829
26	8.125	8.504	8.775	9.154
27	8.450	8.829	9.100	9.479
28	8.775	9.154	9.425	9.804
29	9.100	9.479	9.750	10.129
30	9.425	9.804	10.075	10.454
31	9.750	10.129	10.400	10.779
32	10.075	10.454	10.725	11.104
33	10.400	10.779	11.050	11.429
34	10.725	11.104	11.375	11.754
35	11.050	11.429	—	—
36	11.375	11.754	—	—

EC/98/003-01 12241/CL LR25557 E63810

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series SSB3 (Continued)

Ordering Information

SSB	3	F	P	06	02	02	Suffix
A	B	C	D	E	F	G	H

A Single Screw Dual-Barrier Strip SSB

B Contact Spacing
(Center-to-Center)
3=.325 in.

C Base
F=Raised Base

D Mounting Options
F= Open end positions without end barriers
M= Open end positions with end barriers
P= All positions filled with contacts, with end barriers

E No. of Circuits (Not Positions)
02 through **36**

F Terminal Style
02= Printed Circuit Pin
04= Extended Circuit Board
11= Right-Angle Bend .18 x .12

G Top Hardware Options
01= Bright zinc and chromate plated steel binding-head screw

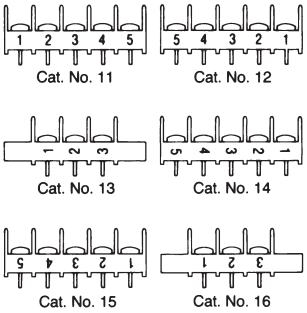
02= Bright zinc and chromate plated steel screw and captive clamp – Do not order in combination with other top hardware.

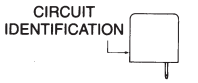
Quick-Connect Blades
(supplied with 01 screw)

.110 wide x.020 thick	.187 wide x.020 thick
10	70=
11	71=
12	72=
13	73=
14	74=
15	75=

H Circuit Identification Options
Catalog Number Codes: 11 through 16. SSB blocks may be ordered with circuit identification numbers in white on the molding in six different variations. Custom markings are available on special order.

11=	12345...
12=	...54321
13=	1 2 3 4 5 . . .
14=	. . . 5 4 3 2 1
15=	...12345...
16=	...54321





SIDE VIEW

Hardware Options

3C1xxx—Safety cover, see page 175
J3140—Jumpers, see page 177
3L02—Wire clamp screw, see page 178
3L01—Binding head screw, see page 178
QC1x—.110 Quick connects, see page 176
QC7x—.187 Quick connects, see page 176

For mating socket, see pg. 162.

EC/98/003-01 12241/CL LR25557 E63810

Catalog 1308389
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Dimensions are in millimeters and inches unless otherwise specified.

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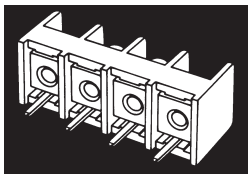
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.325" [8.26] Pitch, Series SSB3, Options

Base

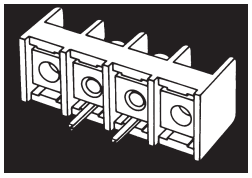
Catalog Letter Code: F. Lends itself most readily to applications where direct top-to-bottom feed-through is required with no special requirement for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



Mounting Options

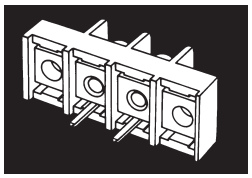
End Position Mounting

Catalog Letter Code: M. Provides a printed circuit board mounting option with top-side wire entry.



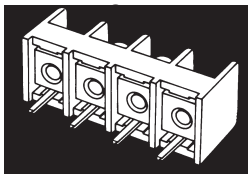
End Position Mounting Without Barriers

Catalog Letter Code: F. Facilitates mounting-screw access when end sections are used for mounting.



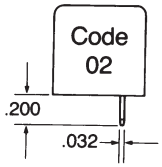
Direct Mounting:

Catalog Letter Code: P. SSBs may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



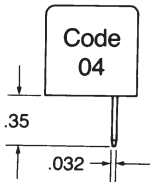
Printed Circuit Pin:

Catalog Number Code: 02. Designed specifically for mounting on .063" thick circuit board. Special, readily solderable plating permits good fillet development in automated soldering processes.



Extended Printed Circuit Pin:

Catalog Number Code: 04. Useful where extra length is needed, as in thicker printed circuit boards or single-wrap connections.



Top Hardware Options

Binding Head Screws

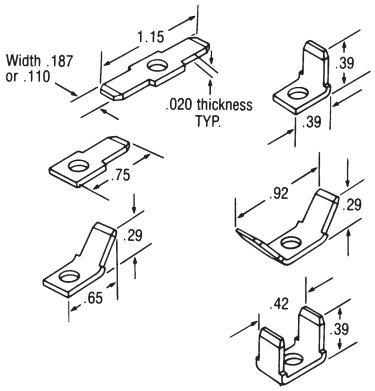
Catalog Number Code: 01. In most applications, binding head screws will provide excellent wire retention because of exclusive wire locking tabs. Screws are bright zinc and chromate plated steel.

Captive Clamp

Catalog Number Code: 02. For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have a unique Phil-slot design accepting either Phillips-head or straight screwdriver. Code 02 screw is bright zinc and chromate plated steel.

Quick Connects

Catalog Number Codes: 10 through 75. A complete selection of .187" and .110" quick-connect blades are available for connecting wire terminated with female quick connects. Single-and double-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



LR25557 E63810

Catalog 1308389
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Dimensions are in millimeters and inches unless otherwise specified.

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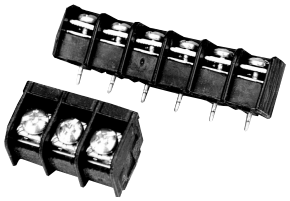
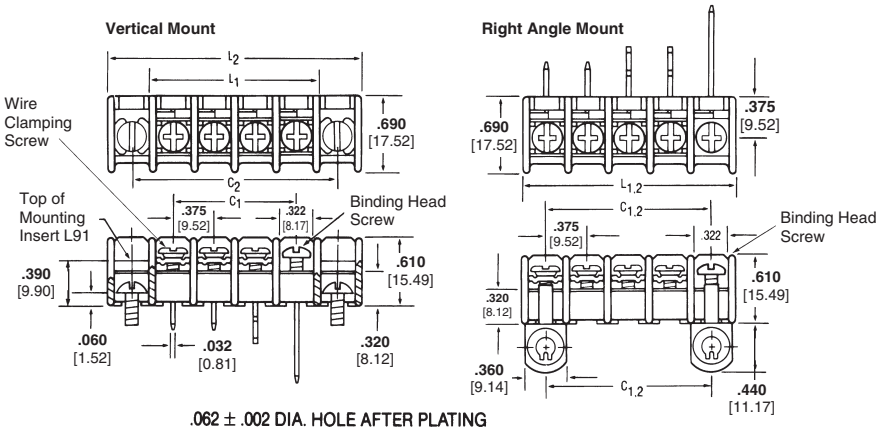
UK: 8706-080-208

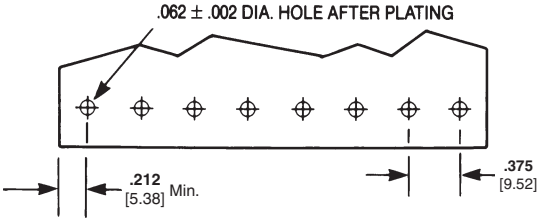
Note: All part numbers are RoHS Compliant.

0.375" [9.53] Pitch, Series RSB6

RSB6RP##1102







Recommended PCB Hole Pattern

LR25557 E63810

Material & Finish

Housing Material—Polypropylene
Flammability—UL94V-2
Color—Black
Terminals—Brass, bright acid tin over copper plating
Screw—Steel w/Zinc + Chromate plating

Mechanical Properties

Pitch (Terminal Spacing)—.375" [9.53]
Screw Size—6-32
Recommended PCB Hole Dia.—.062" [1.57]
Wire Strip Length—.38" [9.65]
Recommended Tightening Torque—12 in-lbs.
Recommended Screwdrivers—Stanley 1006-4, Sears Craftsman 41581, Any #2 Phillips-Head
Wire Lug Width (Max.)—8.1mm [.320"]

Electrical Properties

Ratings—UL Class B 20 Amps, 300V
CSA Type C 15 Amps, 150V
CSA Type D 10 Amps, 300V
Wire Range—12-22 AWG
Dielectric Withstand—3500V

Environmental Properties

Operating Temperature Range—-60ºC to +105ºC [-76ºF to +221ºF]

Computing RSB Block Lengths

Direct Mounting – Use C1 & L1 for VP, SP, RP mounting options
End Position Mounting – Use L2 & C2 for VM, SM, RM, VE, SE, RE mounting options
For mating socket, see pg. 163.

Hardware Options

J6—Jumpers, see page 177
L02—Wire clamp screw, steel, see page 178
L09—Wire clamp screw, brass, see page 178
L01—Binding head screw, see page 178
L04—Binding head screw, brass, see page 178

Dimensions

Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* in.
01	—	—	0.75	1.22
02	0.37	0.84	1.13	1.59
03	0.75	1.22	1.50	1.97
04	1.13	1.59	1.88	2.34
05	1.50	1.97	2.25	2.72
06	1.88	2.34	2.63	3.09
07	2.25	2.72	3.00	3.47
08	2.63	3.09	3.37	3.84
09	3.00	3.47	3.75	3.84
10	3.37	3.84	4.13	4.59
11	3.75	4.22	4.50	4.97
12	4.13	4.59	4.88	5.34
13	4.50	4.97	5.25	5.72
14	4.88	5.34	5.63	6.09
15	5.25	5.72	6.00	6.47
16	5.63	6.09	6.38	6.84
17	6.00	6.47	6.75	7.22
18	6.38	6.84	7.13	7.59
19	6.75	7.22	7.50	7.97
20	7.13	7.59	7.88	8.34
21	7.50	7.97	8.25	8.72
22	7.88	8.34	8.63	9.09
23	8.25	8.72	9.00	9.47
24	8.63	9.09	9.75	9.84
25	9.00	9.47	9.75	10.22
26	9.38	9.84	10.13	10.59
27	9.75	10.22	10.50	10.97
28	10.13	10.59	10.88	11.34
29	10.50	10.97	11.25	11.72
30	10.88	11.34	11.63	12.09
31	11.25	11.72	12.00	12.47
32	11.63	12.09	12.38	12.84
33	12.00	12.47	12.75	13.22
34	12.38	12.84	13.13	13.59
35	12.75	13.22	13.50	13.97
36	13.13	13.59	13.88	14.34

Catalog 1308389
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

0.375" [9.56] Pitch, Series RSB6 (Continued)

Ordering Information

RSB	6	R	P	07	12	02	11
A	B	C	D	E	F	G	H

A Single Screw Tri-Barrier Strips RSB

B Contact Spacing

6=.375 in. (6/16)

C Mounting Position Options

V= Vertical Mounting

H= High Rise (use with #18 terminal style)

D End Contact Options

E= Open end pos. with mounting inserts

M= Open end positions

P= All positions filled with contacts

E No. of Circuits (Not Positions)

02 through **34** for M Option

02 through **36** for P Option

F Terminal Style

11=Superseded by 6STV, page 129

12=Circuit Board, V Mounting (select this option when block is to be used with RSB plug-in socket)

13=Superseded by 6TBV, page 129

14=Superseded by 6STR, page 129

15=Superseded by 6PCR, page 129

16=Superseded by 6WWR, page 129

17=Superseded by 6WWV, page 129

18=Circuit Board (for High Rise Mounting)

G Top Hardware Options

01=
Bright zinc and chromate plated steel binding-head screw

02=
Bright zinc and chromate steel screw and captive clamp – Do not order in combination with other top hardware

03=Stainless steel binding-head screw

04=Nickel plated brass binding-head screw

09=Nickel plated brass screw and captive clamp – Do not order in combination with other top hardware

Quick-Connect Blades

(supplied with 01 screw)

.250 [6.35] wide x.032 [.81] thick	.187 [4.75] wide x.020 [.51] thick
22	42=
23	43=
24	44=
25	45=
29	49=
30	50=
31	51=
33	53=
35	55=
36	56=

H Circuit Identification Options

Request drawing C7013624 for complete information

Front	Top
11	**21** = 12345...
12	**22** = ...54321
13	**23** = 1 2 3 4 5 . . .
14	**24** = . . . 5 4 3 2 1
15	**25** = 12345...
16	**26** = ...54321
17	**27** = . . . 5 4 3 2 1
18	**28** = 1 2 3 4 5 . . .

For mating socket, see pg. 152.

LR25557 E63810

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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

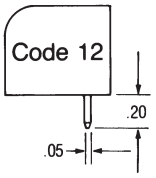
Note: All part numbers are RoHS Compliant.

0.375" [9.56] Pitch, Series RSB6, Features/Options

Terminal Style

Vertical Terminal

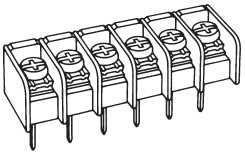
Catalog Number Code 12: Designed specifically for use with our RSB6B Socket, page 163.



Mounting & Contact Position Options

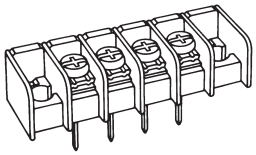
Vertical, Direct Mounting

Catalog Code VP: This configuration is frequently used on printed circuit boards where solder connections are used to fasten the block to the board.



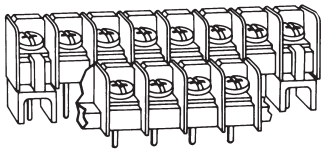
Vertical, End Position Mounting

Catalog Code VM:
Used where end sections are needed for mounting. Thickness of base is sufficient to support mounting screws.



High Rise, All Positions Filled with Contacts

Catalog Code HP:
Designed for high density; two rows deep when used in conjunction with a VP configuration.



Top Hardware Options:

Binding Head Screws

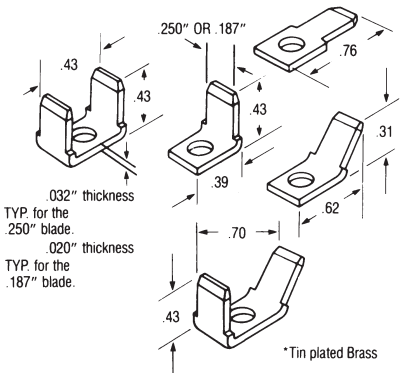
Four Styles Available.

Captive Clamp

Catalog Number Code: 02 & 09.
For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have #8 pan head with a unique Phil-slot design accepting either Phillips-head or straight screwdriver. The body is #6 to allow use of larger wire.

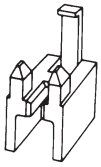
Quick Connects

Catalog Code below: A selection of .187" and .250" quick connect blades with tin plated brass are available for connecting wire terminated with female quick-connects. They are available individually or in combination. See ordering information.



High Rise, Mounting Standoffs

Designed for high density; allows two rows of contacts on two levels when used with a VP mounting configuration.

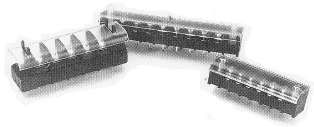


LR25557 E63810

Note: All part numbers are RoHS Compliant.

Accessories — Barrier Strip Safety Covers

For Series BC6, #3, JC6



For Series BC6, #3, JC6 Mounting

TC 3—Aluminum mounting bushings and screws

TC 2, 9—Plastic fasteners attached to block with thru-bolts and nuts (not supplied)

Center Spacing

TC 3—0.250 inch [6.35]

TC 2, 9—0.375 inch [9.56]

Material—Clear, rigid PVC, UL94V-0

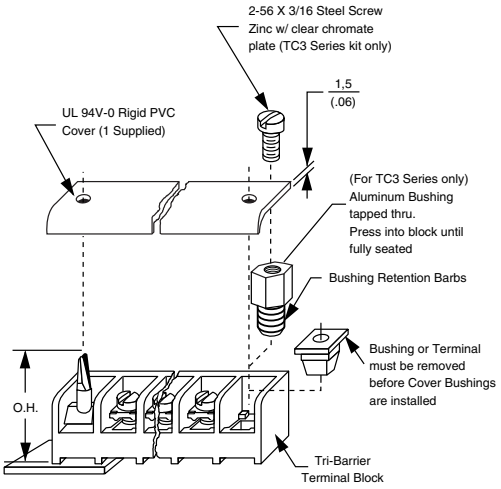
For Series #4, #6, #8 Physical Properties

Centerline spacing—8.2/[.325] - 9.5/[.375] 11.1/[.4375]

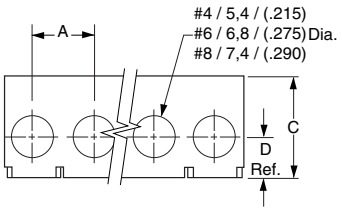
Positions—2 thru 16, molded to length

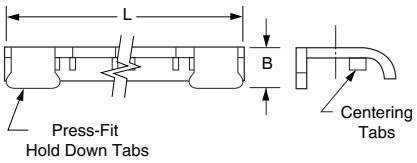
Material—Black, thermoplastic, UL94V-0

Shock and Vibration—to MIL.STD. 1344 method 2005.1 Condition III.



For Series #4, #6, #8





Ordering Information

TC 4 - 06 - PFH - CL

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

Ⓐ Series
TC = Cover

Ⓑ Center Spacing
2 = BC6 Series
3 = #3 Series
4 = #4 Series
6 = #6 Series
8 = #8 Series
9 = JC6 Series

Ⓒ No. of Circuits
(Not positions)
02 through **24** for Series BC6, JC6
02 through **30** for Series #3
02 through **16** for Series #4, #6, #8

Ⓓ Access Holes
PF* = Press Fit without holes
PFH* = Press Fit with holes
AG = Adder for Series BC6, #3, JC6

Ⓔ Color (add for Series #4, #6, #8 only)
(blank) = Black (Series BC6, #3, JC6 are clear)
CL = Translucent (Available only for Series #4, #6, #8)

Overall Height (O.H.)		
TC2	TC3	TC9
0.970"	0 .650"	0.970"

* Add for Series #4, #6, #8

Catalog #	A	B	C	D Ref.	L
TC4	8,2 (.325)	6,0 (.238)	13,5 (.531)	5,7 (.225)	A* (N-1)+7,9/(.312) #4
TC6	9,5 (.375)	6,3 (.250)	13,3 (.525)	6,4 (.253)	A* (N-1)+(,4/(.370) #6
TC8	11,1 (.4375)	8,1 (.314)	21,5 (.846)	11,1 (.4375)	A* (N-1)+10,9/(.430) #8

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Accessories — Barrier Strip Safety Covers (Continued)

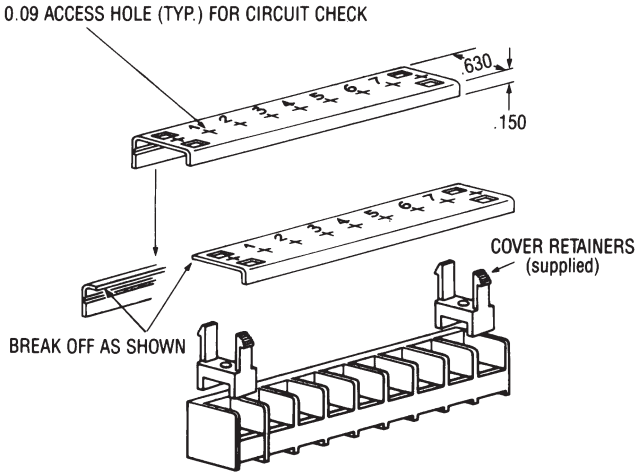
Safety Covers

Dead front protection designed to prevent accidental contact with energized circuits. Access holes for test probes are provided over each terminal. Nylon clips are included with each cover. Covers meet UL94V-0, with 50°C temperature index. Blank circuit identification optional.

For SSB3, RSB3, RSB6 and SSB7 Series.

Related Product Data

Wire Pins and Ferrules
Pages 109-111
For more information on Tyco Electronics Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



Ordering Information

3 C 1 N 07

Centerline Dimensions
3=.325 in.
7=.4375 in.

Cover Material
C=Yellow PVC

Style
1=Closed Back

Circuit Identification
N=No Markings
F=Forward Sequence (as shown)
R=Reverse Sequence

Number of Circuits
(Use Two Digits)
02 through 34
Max for **SSB7=25**
Max for **RSB6=34**
Max for **RSB3=34**
Max for **SSB3=34**

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

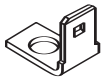
Accessories — Quick-Connect (QC) Tabs

Physical Properties

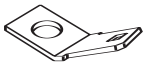
Tabs

Material—Tin plated brass

Dimensions— #4 Series 0.187" wide x 0.020" thick, #6 Series 0.250" wide x 0.032" thick (0.187" x 0.020" optional), #8 Series 0.250" wide x 0.032" thick



90°



45°

180°

Stackable Tabs

Ordering Information: Tabs

QC4 - 180 - 3

Ⓐ Ⓑ Ⓒ

Ⓐ Style Size

QC4 = for #4 Series (45° tab angle not available)

QC6 = for #6 Series

QC8 = for #8 Series

Ⓑ Tab Angle

180 = 180° (flat)

45 = 45°

90 = 90°

Ⓒ Tab Size

3 = 0.187 w x 0.020

4 = 0.250 w x 0.032

Note: QC tabs may be stacked to achieve several angle configurations.

.0325" Pitch, Series SSB3

QUICK-CONNECT Tabs

Description		.110 wide x .020 thick		.187 wide x .020 thick	
		Part No.	Cat. No.	Part No.	Cat. No.
Flat, Two-Sided		5-1437402-7	QC10	7-1437402-5	QC70
45°, Two-Sided		5-1437402-8	QC11	7-1437402-6	QC71
90°, Two-Sided		5-1437402-9	QC12	7-1437402-7	QC72
Flat, Single-Sided		6-1437402-0	QC13	7-1437402-8	QC73
45°, Single-Sided		6-1437402-1	QC14	7-1437402-9	QC74
90°, Single-Sided		6-1437402-2	QC15-BU	8-1437402-0	QC75

.375" & .4375" Pitch, Series JC6 and SSB7

QUICK-CONNECT Tabs

Description		.250 wide x .032 thick		.187 wide x .020 thick	
		Part No.	Cat. No.	Part No.	Cat. No.
Flat, Two-Sided		1546986-1	QC20-BU	6-1437402-9	QC40-BU
45°, Two-Sided		1546986-3	QC21	7-1437402-0	QC41
90°, Two-Sided		1546986-4	QC22	7-1437402-1	QC42
Flat, Single-Sided		6-1437402-5	QC23	7-1437402-2	QC43
45°, Single-Sided		6-1437402-6	QC24	7-1437402-3	QC44
90°, Single-Sided		6-1437402-7	QC25	7-1437402-4	QC45
Flat, Two-Sided, Extra-Long		1776090-1	—	—	—
90°, Two-Sided, Extra-Long		1776090-2	—	—	—
45°, Two-Sided, Extra-Long		1776090-3	—	—	—

.375" Pitch, Double Row

QUICK-CONNECT Tabs

Description		.250 wide x .032 thick	.187 wide x .032 thick
		Part No.	Part No.
Flat, Two-Sided		1776860-1	1776803-1
45°, Two-Sided		1776860-2	1776803-2
90°, Two-Sided		1776860-3	1776803-3
Flat, Single-Sided		1776843-1	—
45°, Single-Sided		1776843-2	—
90°, Single-Sided		1776843-3	—

.563" Pitch, Double Row

QUICK-CONNECT Tabs

Description		.250 wide x .032 thick Part No.
Flat, Two-Sided		1776173-1
45°, Two-Sided		1776173-2
90°, Two-Sided		1776173-3
45°/90°, Two-Sided		1776173-4
Flat, Single-Sided		1776174-1
45°, Single-Sided		1776174-2
90°, Single-Sided		1776174-3

.437" Pitch, Double Row

QUICK-CONNECT Tabs

Description		.250 wide x .032 thick Part No.
Flat, Two-Sided		1776057-3
45°, Two-Sided		1776057-2
90°, Two-Sided		1776057-1
Flat, Single-Sided		1776110-3
45°, Single-Sided		1776110-2
90°, Single-Sided		1776110-1

Related Product Data

Wire Pins and Ferrules

Pages 109-111

For more information on Tyco Electronics Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

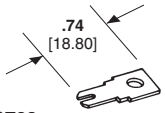
Solder Tabs:

For making top-side solder connections

Single-Sided

Part No.	Cat. No.
1-1437403-1	ST80

Order Number



ST80

Dimensions are in millimeters and inches unless otherwise specified.

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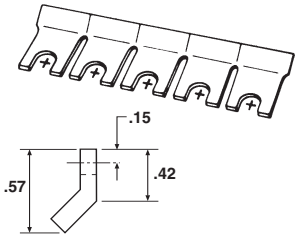
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

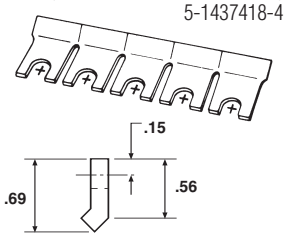
Accessories — Jumpers

AROUND-THE-BARRIER
40 circuits; snap apart to desired lengths.

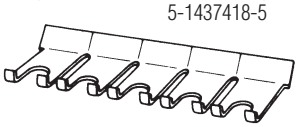
	Catalog Number	Part No.
Spade Jumper	**J3140** (for 0.325" Pitch)	5-1437418-3



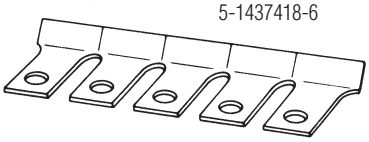
	Catalog Number	Part No.
Spade Jumper	**J6140** (for 0.375" Pitch and #6 Screw)	5-1437418-4



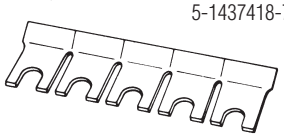
	Catalog Number	Part No.
Flanged Spade Jumper	**J6240** (for 0.375" Pitch and #6 Screw)	5-1437418-5



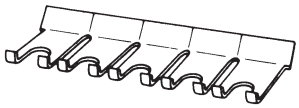
	Catalog Number	Part No.
Ring Tongue Jumper	**J6340** (for 0.375" Pitch and #6 Screw)	5-1437418-6



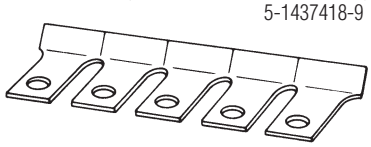
	Catalog Number	Part No.
Spade Jumper	**J7140** (for 0.4375" Pitch and #6 Screw)	5-1437418-7



	Catalog Number	Part No.
Flanged Spade Jumper	**J7240** (for 0.4375" Pitch and #6 Screw)	5-1437418-8

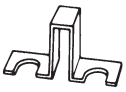


	Catalog Number	Part No.
Ring Tongue Jumper	**J7340** (for 0.4375" Pitch and #6 Screw)	5-1437418-9



Over-the-Barrier Two Circuit (Brass, Tin Plated)

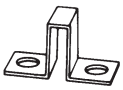
Spade Jumper



J74 (for 0.375" Pitch, Series RSB6 & SSB6; 0.4375" Pitch, SSB7) 6-1437418-0

J76 (0.4375" and 0.375" Double-Row) 1776058-1

Ring Tongue Jumper



J75 (for 0.375" Pitch, Series RSB6 & SSB6; 0.4375" Pitch, SSB7) 6-1437418-1

J77 (0.563" Double-Row) 1776058-1

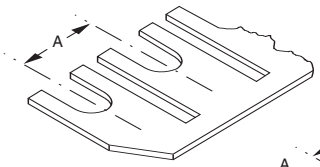
Order Number

Jx x

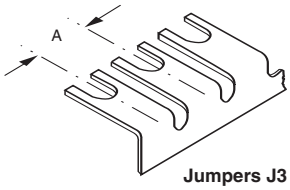
Ⓐ Ⓑ

Ⓐ **Block Series**
- **J3** = #3 Series
- **J4** = #4 Series, 4DB
- **J6** = #6 Series, JC6, BC6, NC6, MB6
- **J8** = #8 Series, 1546670, 1546671

Ⓑ **No. of Circuits** (Not positions)
2 through **16**



Jumpers J4, J6 and J8



Jumpers J3

Block Series	Centerline Spacing A
J3	6,4 (0.250")
J4	8,3 (0.325")
J6	9,5 (0.375")
J8	11,1 (0.438")

Catalog 1308389
Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

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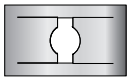
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Accessories — Hardware & Brackets

	Catalog Number	Part Number	Description	Series
Binding Head Screws				
	3L01	1437402-2	#6-32 Steel w/clear chromate	RSB3, SSB3
	L01	2-1437402-4	#6-32 Steel w/clear chromate	SSB6, SSB7, RSB6
	—	8-1437649-4	#4-40 Steel w/clear chromate	Series #4
		1437651-8	#6-32 Steel w/clear chromate	Series #6, BC6, NC6, JC6
	L03	2-1437402-6	#6-32 Stainless Steel	SSB6, SSB7, RSB6 Series #6, JC6
	L04	2-1437402-7	#6-32 Brass w/nickel plate	SSB6, SSB7, RSB6
	—	1447429-1	#8-32 Steel w/clear chromate	Series #8
Wire Clamp Screws				
	3L02	1437402-3	#6-32 Steel w/clear chromate	RSB3, SSB3
	L02	2-1437402-5	#6-32 Steel w/clear chromate	SSB6, SSB7, RSB6
	L09	2-1437402-8	#6-32 Brass w/nickel plate	SSB6, SSB7, RSB6
	—	8-1437649-0	#4-40 Steel w/clear chromate	Series #4
	—	1437651-5	#6-32 Brass w/nickel plate	Series #6, BC6, JC6, NC6, MB6
	—	1437651-2	#6-32 Steel w/clear chromate	Series #6, BC6, JC6, NC6, MB6
	—	1447425-1	#8-32 Steel w/clear chromate	Series #8
	—	9-1437667-9	#6-32 Steel w/clear chromate	4DB

		Catalog Number	Part No.
MOUNTING INSERTS (Nylon) for mounting RSBs with blank end sections		**L91**	5-1437402-1
PRESS-ON RETAINING CLIPS (Stainless Steel) for mounting turret base SSBs, JC6, and BC6		**JC/BC-Retaining**	1437661-7
Angle Bracket for mounting SSBs with right angle terminals, copper alloy, tin plated		**L92**	5-1437402-2

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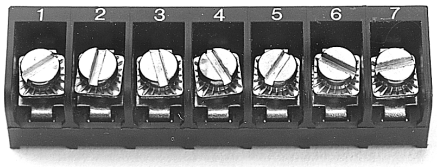
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

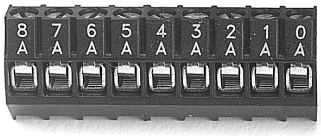
Note: All part numbers are RoHS Compliant.

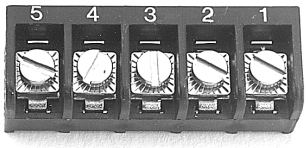
Accessories — Standard and Custom Legends

Product Facts

- **Permanent markings, impervious to cleaning solvents per MIL-STD 202, Method 215**
- **Alphabetical and numerical legending**
- **Numbers and characters can be in any order**
- **Size and spacing of characters may be tailored to your application**
- **White markings standard**
- **Custom legends available on special request**



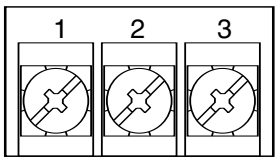




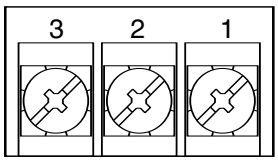
Custom legending can lend a personal touch to your product...helps in circuit identification and makes wiring faster and easier. Alphabetical and numerical markings are available in either standard or custom styles to best suit your specific applications.

Legending is available to the styles depicted below.

Standard Legending Arrangements



Style A1



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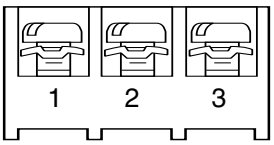

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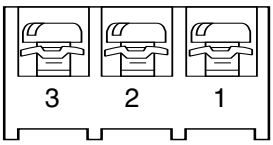

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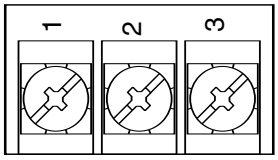
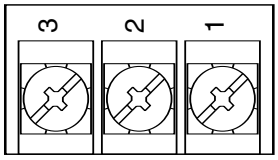


Style A2



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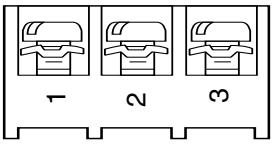

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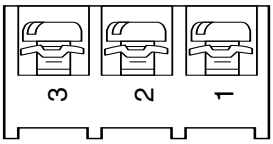
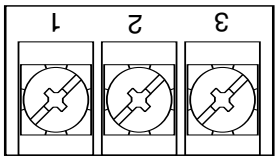


Style D2



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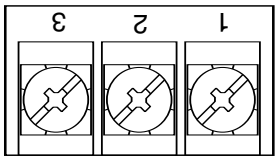

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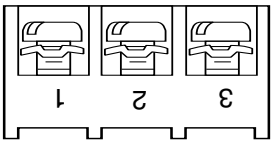

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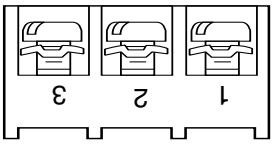
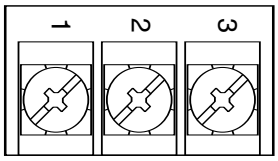
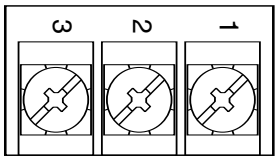


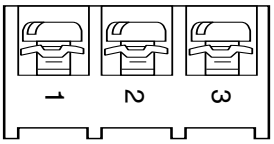
Style D3



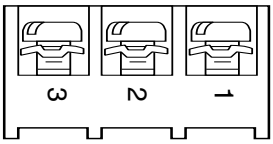
Style A4



Style B4



Style C4



Style D4

Catalog 1308389
Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 8706-080-208

Note: All part numbers are RoHS Compliant.

Engineering Notes

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