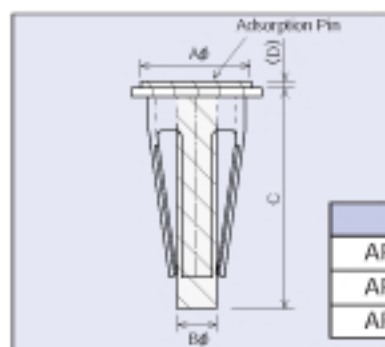
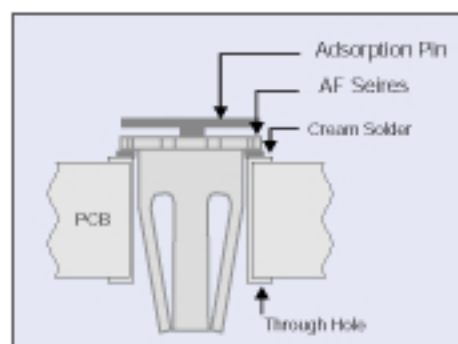


AF Series / Pin Inserts

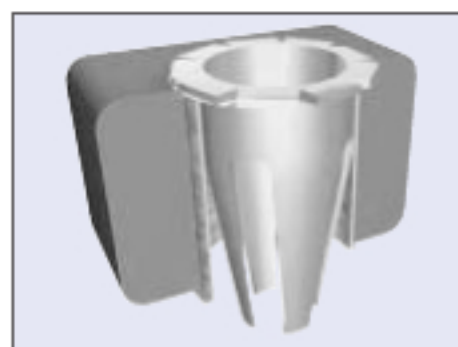
- With AF Series, you can change through holes into pin inserts.
- Mounter should have automatic recognition system
(You need reflow to fix it in through hole)
- Various parts can be mounted (diameter: 0.40~1.0 ϕ)
- Material...Be-Cu (adsorption pin...Aluminium)
- Finish...Plated Au over Ni base
- Contact Resistance.....not over 10m Ω
- Current Capacity
 - AF-0.5 () ... 2A
 - AF-0.7 () ... 4A
 - AF-0.9 () ... 6A
- Capacity of Insertion and Removal/.....not over 100 times
- Recommended Metal Mask Thickness...100~150 μ
- ※ AF series can be mounted on any thickness of PCB
- Operating Temperature...-40~+125 $^{\circ}$ C

PAT



Adsorption Pin

N/O	A	B	C	(D)
AF-0.5 ()	1.3	0.45	2.9	0.18
AF-0.7 ()	1.6	0.6	3.4	0.15
AF-0.9 ()	2.0	0.8	4.0	0.25



■ Product N/O

N/O	Recommended Male pin ϕ	Insertion Power F (g/avg)	Removal Power F (g/avg)	Package
AF-0.5 (L)	0.45~0.6 ϕ	50	30	1000pcs/reel
AF-0.5 (H)	0.40~0.6 ϕ	250	130	1000pcs/reel
AF-0.7 (L)	0.6~0.8 ϕ	90	50	1000pcs/reel
AF-0.7 (H)	0.6~0.8 ϕ	700	530	1000pcs/reel
AF-0.9 (L)	0.8~1.0 ϕ	100	70	450pcs/reel
AF-0.9 (H)	0.8~1.0 ϕ	280	200	450pcs/reel

(L) ... force to insert is less than that of (H)

(H) ... force to insert is more than that of (L)

※ The forces in the list are to insert (or remove) into the center of holes

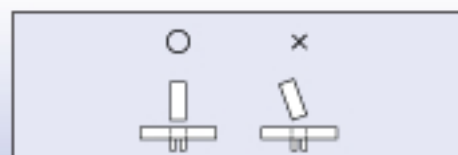
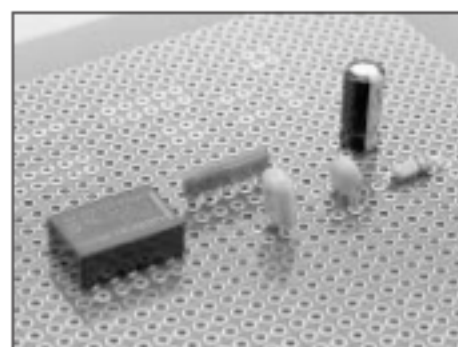
■ You can order bulk type (no adsorption pin)

AF-0.5 (L) -B

—add -B for bulk type (100/package)

■ Notice

Please insert male pin vertically



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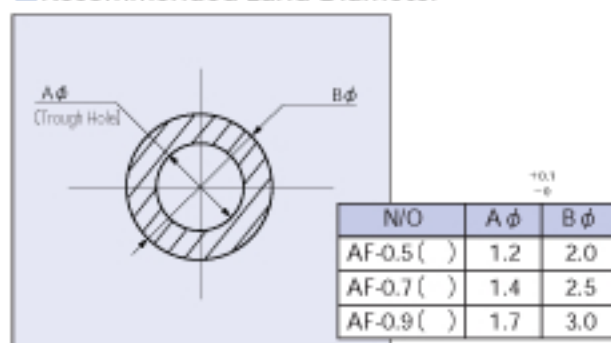
<http://www.mac8usa.com>

AF Series / Pin Inserts

■ Dimension

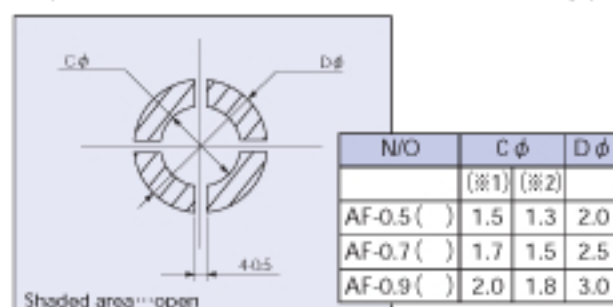
AF-0.5 (L)	AF-0.5 (H)	AF-0.7 (L)	AF-0.7 (H)	AF-0.9 (L)	AF-0.9 (H)

■ Recommended Land Diameter



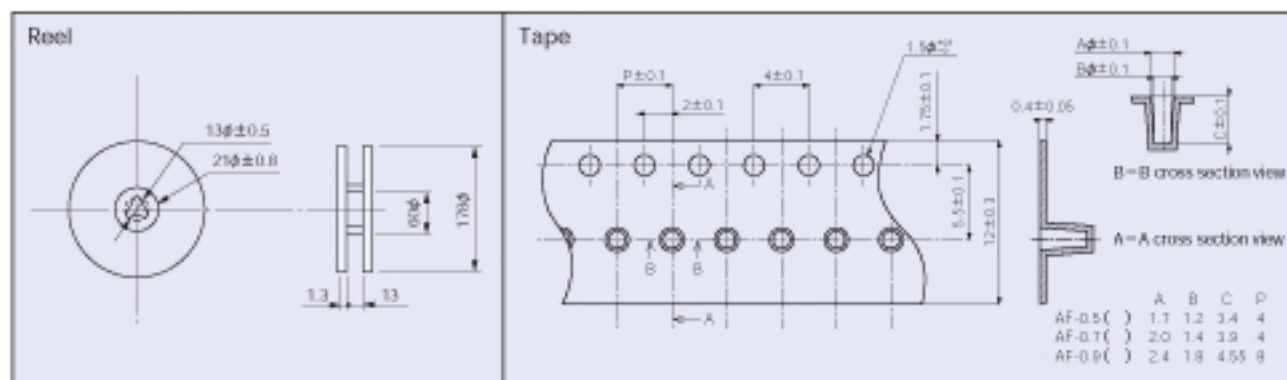
■ Recommended MetalMask

(Recommended Metal Mask Thickness - 100~150 μ)



(※1)...Solder plated TH
(※2)...Copper plated TH/Gold plated TH

■ Dimensions



■ Process

1. Print Cream Solder on PCB (Recommended Metal Mask Thickness...100~150 μ)
2. Mount AF Series (Please use automatic recognition type mounter)
3. Reflow
4. Remove adsorption pin by pushing from the bottom

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HK Series / Test Point for Auto Insertion

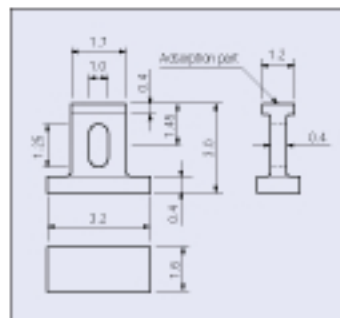
Test Point for Auto Insertion [HK-2 Series] (3.2x1.6 type) (1000pcs/reel) **PAT**

■ In the case of reflowing by cream solder, recommended mounting land diameter should be more than 1.6x3.2 to strengthen the bonding

■ Material.....Brass

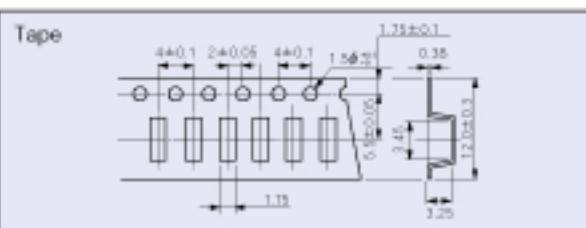
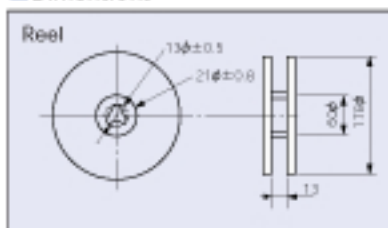
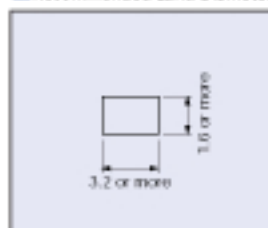
■ Finish..... HK-2-GPlated Au over Ni base
HK-2-SPlated Sn over Ni base

N/O	Package
HK-2-G	1000/reel
HK-2-S	1000/reel



■ Recommended Land Diameter

■ Dimensions



Test Point for Auto Insertion [HK-3 Series] (2x1.25 type) **PAT**

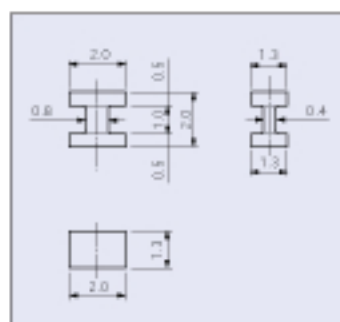
■ Best use for small equipments.

■ In the case of reflowing by cream solder, recommended mounting land diameter should be more than 2x1.25 to strengthen the bonding.

■ Material.....Brass

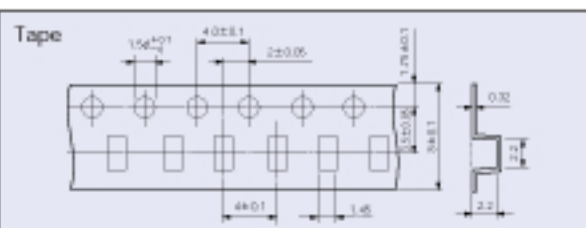
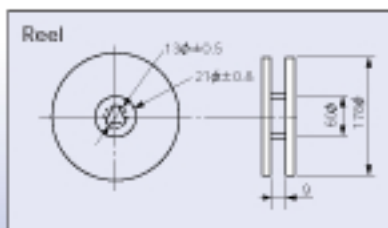
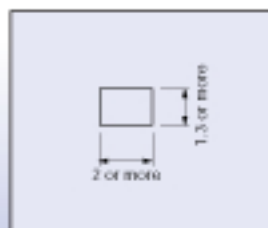
■ Finish..... HK-3-GPlated Au over Ni base
HK-3-SPlated Sn over Ni base

N/O	Package
HK-3-G-T	1500pcs/reel
HK-3-G	1000pcs/bulk
HK-3-S-T	1500pcs/reel
HK-3-S	1000pcs/bulk



■ Recommended Land Diameter

■ Dimensions



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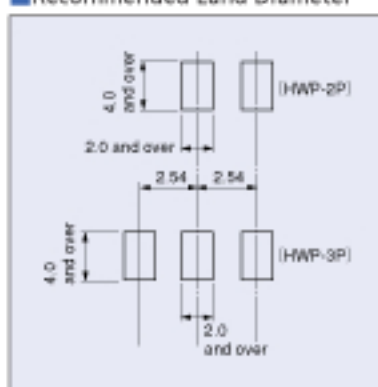
HWP-2P, 3P Series / Wire Wrap Terminal for SMT

PAT.P

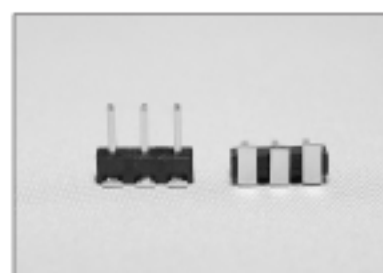
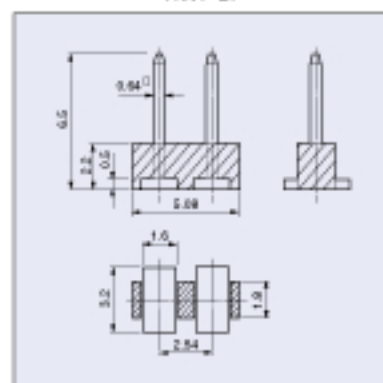
- Can be mounted by Auto Insertion System
- Can be used as terminal for Jumper (JS-1)
- Can be attached by reflow
- Can select 3p or 2p type
- Operating Temperature.....-40~+125°C
- Material: Pin part: Brass Plastic part: PPSblack (UL94V-0)
- Current Capacity: 3A
- Insulation Resistance: 500M Ω and over
- Withstand Voltage: 1000V AC, DC 1min
- Finsh: -G Plated Au over Ni
-S Plated Sn over Ni

N/O	Package
HWP-2P-G	100pcs/bulk
HWP-2P-G-M	100pcs/cartridge
HWP-2P-G-T	1200pcs/reel
HWP-2P-S	100pcs/bulk
HWP-2P-S-M	100pcs/cartridge
HWP-2P-S-T	1200pcs/reel
HWP-3P-G	100pcs/bulk
HWP-3P-G-M	70pcs/cartridge
HWP-3P-G-T	1200pcs/reel
HWP-3P-S	100pcs/bulk
HWP-3P-S-M	70pcs/cartridge
HWP-3P-S-T	1200pcs/reel

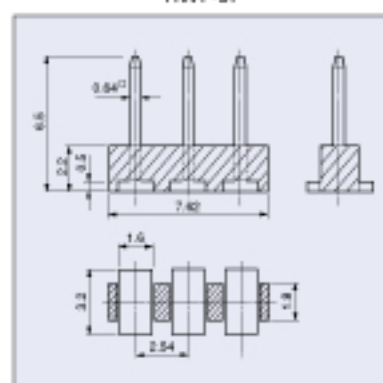
Recommended Land Diameter



HWP-2P



HWP-3P



Jumper Socket for HWP Series [JS-1]

Material

Contact Part: Phosphor Bronze

Plastic Part: PBT Black (UL94V-0)

Finish

Contact Part: Plated Au over Ni

Current Capacity: 3A

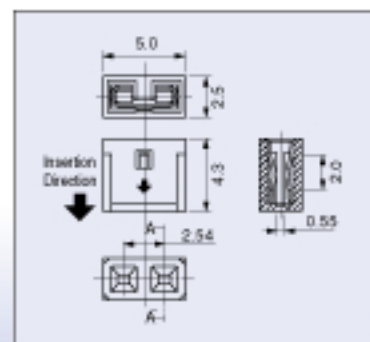
Rated Voltage: 250V AC, DC

Contact Resistance: 20m Ω and below

Adaptive Pin Diameter.....0.64

Capacity of Insertion and Removal: 70g and over

Operating Temperature.....-40~+125°C



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MJP, MJ Series / Jumper Wire for SMT

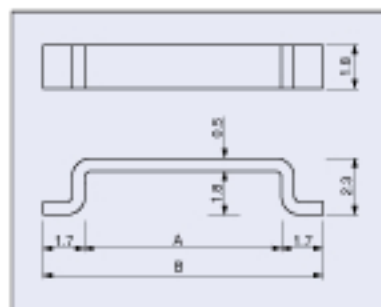
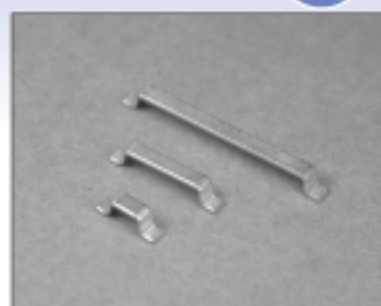
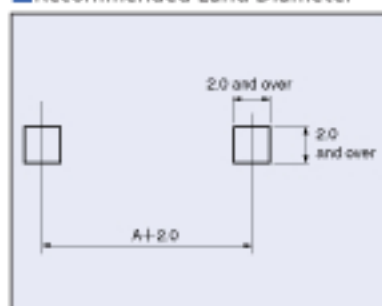
Jumper Wire for SMT [MJP Series]

PAT

- Can be mounted by Auto Insertion System
- The distance between MJP and PCB is 1.8mm
- Can be attached by reflow
- Material: Phosphor Bronze (Bronze only for MJP-0.1)
- Finish: Sn plated over Ni base
- Current Rating: 20A

N/O	A	B	Package
MJP-0.2	3.08	6.48	1000/pack
MJP-0.2-T	3.08	6.48	1500/reel
MJP-0.3	5.62	9.02	1000/pack
MJP-0.3-T	5.62	9.02	1500/reel
MJP-0.4	8.16	11.56	1000/pack
MJP-0.4-T	8.16	11.56	1500/reel
MJP-0.5	10.7	14.1	1000/pack
MJP-0.5-T	10.7	14.1	1500/reel
MJP-0.6	13.24	16.64	1000/pack
MJP-0.6-T	13.24	16.64	1500/reel
MJP-0.7	15.78	19.18	1000/pack
MJP-0.7-T	15.78	19.18	700/reel
MJP-0.8	18.32	21.72	1000/pack
MJP-0.8-T	18.32	21.72	700/reel
MJP-1.0	23.4	26.8	1000/pack
MJP-1.0-T	23.4	26.8	700/reel

Recommended Land Diameter



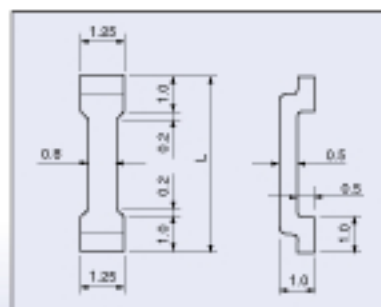
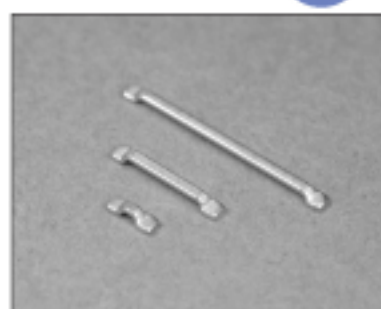
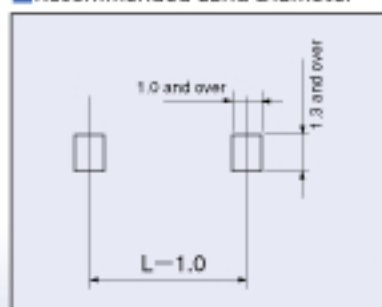
Jumper Wire for SMT [MJ Series]

PAT

- Can be mounted by Auto Insertion System
- The distance between MJ and PCB is 0.5mm
- Can be attached by reflow
- Material: Phosphor Bronze
- Finish: Sn plated over Ni base
- Current Capacity: 7A

N/O	L(mm)	Package
MJ-0.1	3.54	1000/bulk
MJ-0.1-T	3.54	2000/reel
MJ-0.2	6.08	1000/bulk
MJ-0.2-T	6.08	2000/reel
MJ-0.3	8.62	1000/bulk
MJ-0.3-T	8.62	2000/reel
MJ-0.4	11.16	1000/bulk
MJ-0.4-T	11.16	2000/reel
MJ-0.5	13.7	1000/bulk
MJ-0.5-T	13.7	2000/reel
MJ-0.6	16.24	1000/bulk
MJ-0.6-T	16.24	2000/reel
MJ-0.7	18.78	1000/bulk
MJ-0.8	21.32	1000/bulk

Recommended Land Diameter



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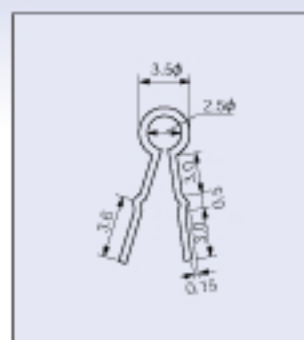
e-mail: info@mac8usa.com Phone: 818.703.5103

<http://www.mac8usa.com>

LC Series / Test Pin for Oscilloscope

Test Pin for Oscilloscope [LC-1-G · LC-1-S] (1000/pack)

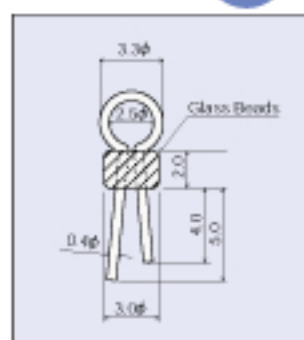
- Can hook oscilloscope probe
- Can be fixed at protrusion level.
- To make the height lower, the PCB TH should be at least 1.4 ϕ
- Material.....Phosphor Bronze 0.5 ϕ
- Finish.....LC-1-GPlated Au over Ni base
LC-1-SPlated Sn over Ni base
- PCB TH Diameter.....1.2 ϕ
- Operating Temperature.....-40~+150°C



Test Point for Oscilloscope [LC-2-G · LC-2-S] (1000/pack)

PAT

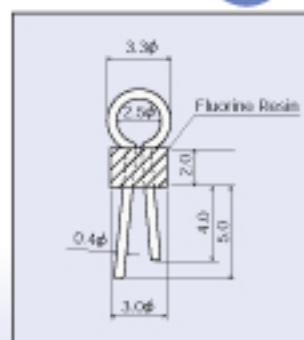
- Can hook oscilloscope probe
- Can distinguish each signal line by using different colors
- Material.....Phosphor Bronze 0.4 ϕ & Glass Beads
- Finish.....LC-2-GPlated Au over Ni base
LC-2-SPlated Sn over Ni base
- PCB TH Diameter.....1.0 ϕ
- Operating Temperature.....-40~+150°C
- Color.....Black, Lightgreen, Green, Skyblue, Purple, White



Test Point for Oscilloscope [LC-22-G · LC-22-S] (1000/pack)

PAT

- Material...Metal...Phosphor Bronze 0.4 ϕ
Plastic Part...Fluorine Resin (UL94V-0)
- Finish.....LC-22-G.....Plated Au over Ni base
LC-22-SPlated Sn over Ni base
- PCB TH Diameter.....1.0 ϕ
- Operating Temperature.....-40~+150°C
- Color.....Brown, Red, Orange, Yellow



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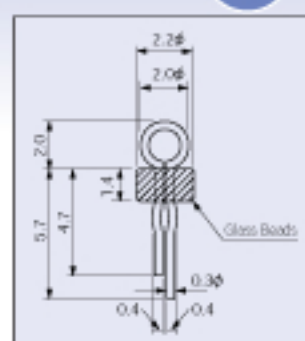
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LC Series / Test Pin for Oscilloscope

Test Pin for Oscilloscope [LC-3-G · LC-3-S] (1000/pack)

PAT

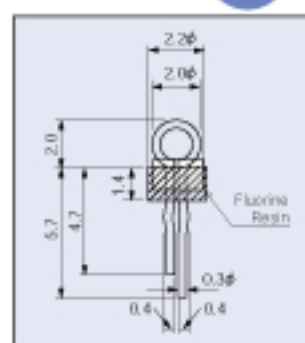
- Can hook oscilloscope probe
- Pitch Distance: 2.54mm
- Can distinguish each signal line by using different colors
- Material.....Phosphor Bronze 0.3 ϕ and Glass Beads
- Finish.....LC-3-GPlated Au over Ni base
LC-3-SPlated Sn over Ni base
- PCB TH Diameter.....0.8 ϕ
- Operating Temperature.....-40~+150°C
- Color.....Black, Light Green, Green, Sky Blue, Purple, White



Test Pin for Oscilloscope [LC-33-G · LC-33-S] (1000/pack)

PAT

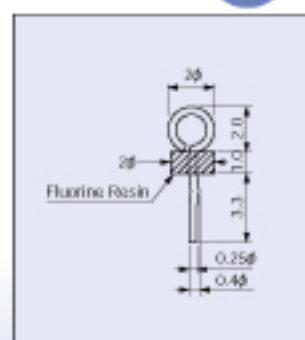
- Can hook oscilloscope probe
- Material...Metal part...Phosphor Bronze 0.3 ϕ
Plastic part...Fluorine Resin (UL94V-0)
- Finish.....LC-33-G.....Plated Au over Ni base
LC-33-SPlated Sn over Ni base
- PCB TH Diameter.....0.8 ϕ
- Operating Temperature.....-40~+150°C
- Color...Brown, Red, Orange, Yellow



Test Pin for Oscilloscope [LC-4-G · LC-4-S] (1000/pack)

PAT

- Can hook oscilloscope probe
- Material...Metal part...Phosphor Bronze 0.25 ϕ
Plastic part...Fluorine Resin (UL94V-0)
- Finish.....LC-4-G.....Plated Au over Ni base
LC-4-SPlated Sn over Ni base
- PCB TH Diameter.....0.3~0.4 ϕ
- Operating Temperature.....-40~+150°C
- Color.....Red, Yellow, Blue, White, Black



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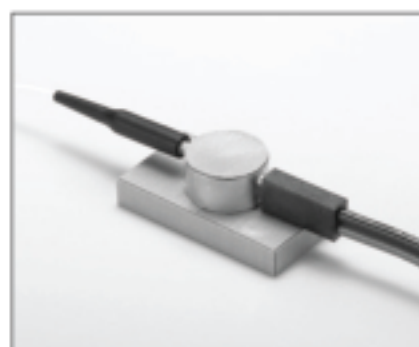
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e-mail: info@mac8usa.com Phone: 818.703.5103

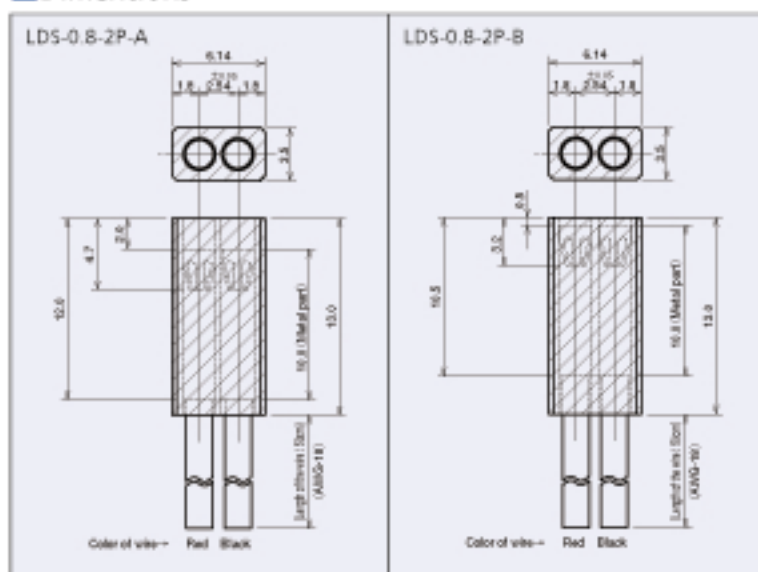
<http://www.mac8usa.com>

LDS Series / LDS-0.8-2P-A/B (1pcs/pack)

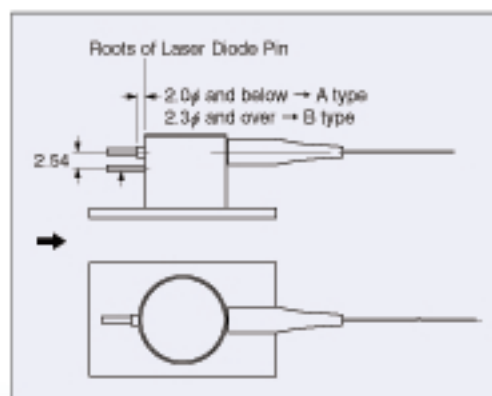
- Connector for Laser Diode
- With 50cm Electric cable (red and black)
- Material
Housing PPS resin Black (UL94V-0)
Socket..... BodyBrass
 Contact...BeCu
- Finish.....Plated Au over Ni base
- Current Capacity.....14A
- Voltage Rating.....20V AC, DC
- Insulation Resistance.....500M Ω and over
- Withstand Voltage.....500V AC, DC 1min
- Contact Resistance.....10m Ω and below (per pin)
- Capacity of Removal and Insertion.....100 times and over
- Cable Size.....AWG-18
- Operating Temperature.....—40~+100℃
- Adaptive Male Pin Diameter.....0.6~0.8 ϕ



■ Dimensions



■ Adaptive Laser Diode



■ How to Order

If root of your Laser Diode pins is 2.0 ϕ and below, please order LDS-0.8-2P-A

If root of your Laser Diode pins is 2.3 ϕ and more, please order LDS-0.8-2P-B

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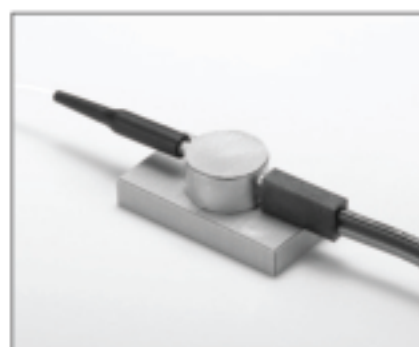
Contact

e-mail: info@macBusa.com Phone: 818.703.5103

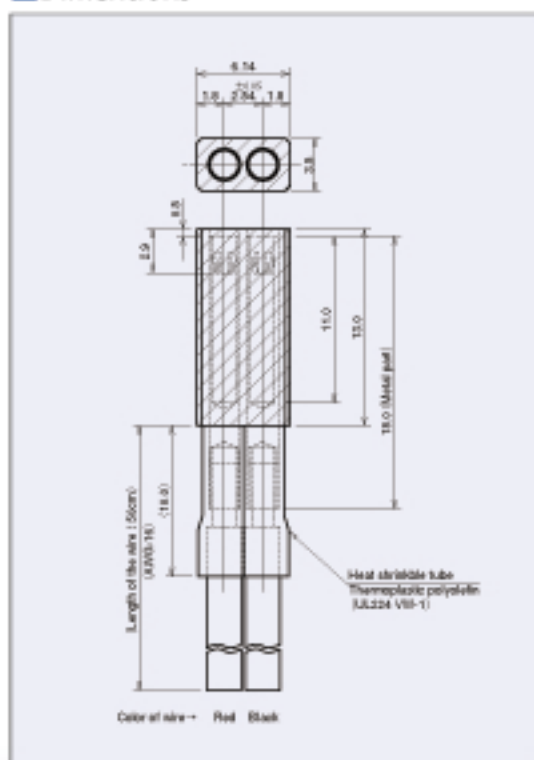
<http://www.mac8usa.com>

LDS Series / LDS-1.0-2P (1pcs/pack)

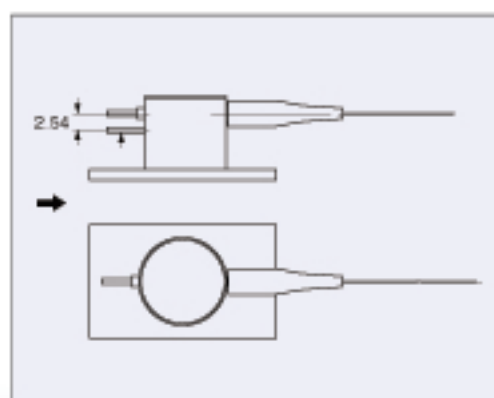
- Connector for Laser Diode
- With 50cm Electric cable (red and black)
- Material
 - Housing PPS resin Black (UL94V-0)
 - Socket..... BodyBrass
 - Contact...BeCu
- Finish.....Plated Au over Ni base
- Current Capacity.....20A
- Voltage Rating.....20V AC, DC
- Insulation Resistance.....500M Ω and over
- Withstand Voltage.....500V AC, DC 1min
- Contact Resistance.....10m Ω and below (per pin)
- Capacity of Removal and Insertion.....100 times and over
- Cable Size.....AWG-16
- Operating Temperature.....-40~+100°C
- Adaptive Male Pin Diameter.....0.8~1.1 ϕ



■ Dimensions



■ Adaptive Laser Diode



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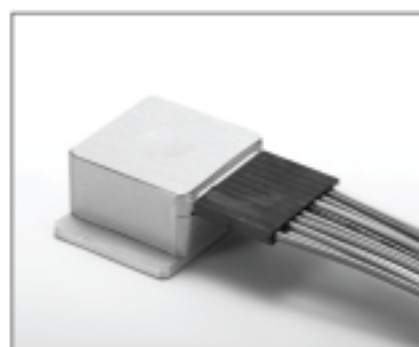
Contact

e-mail: info@mac8usa.com Phone: 818.703.5103

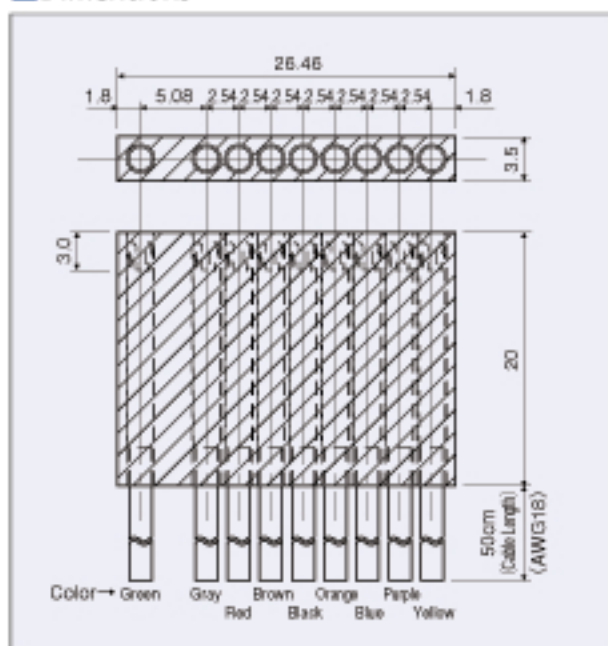
<http://www.mac8usa.com>

LDS Series / LDS-1-NL (1pcs/pack)

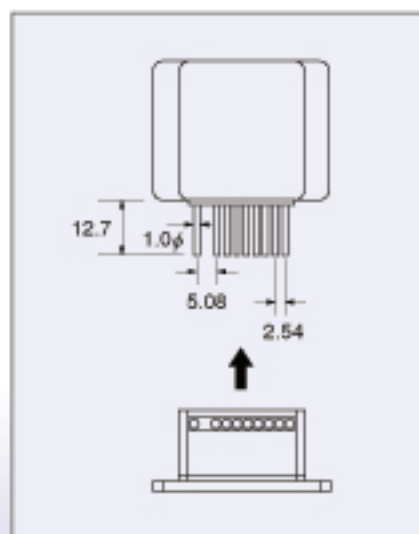
- Connector for Laser Diode
- With 50cm Electric cable
- Material
 - Housing PPS resin black (UL94V-0)
 - Socket..... BodyBrass
 - Contact...BeCu
- Finish.....Plated Au over Ni base
- Current Capacity.....10A
- Voltage Rating.....20V AC, DC
- Insulation Resistance.....500M Ω and over
- Withstand Voltage.....500V AC, DC 1mins
- Contact Resistance.....10m Ω and below (per pin)
- Capacity of Removal and Insertion.....100 times and over
- Cable Size.....AWG-18
- Operating Temperature.....-40~+100°C
- Adaptive Male Pin Diameter.....0.8~1.1 ϕ



■ Dimentions



■ Adaptive Laser Diode



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LQ-2 Series / Laser Diode Socket (10pcs/pack)

■ Material

Plastic Part.....PPS resin Black (UL94V-0)

Socket.....Body...Brass

Contact...BeCu

Finish Plated Au over Ni base

■ Current Capacity.....1A

■ Contact Resistance.....10mΩ and below

■ Insulation Resistance.....500M Ω and over

■ Withstand Voltage.....500V AC, DC 1 mins

- Capacity of Insertion and Removal.....100 times and over

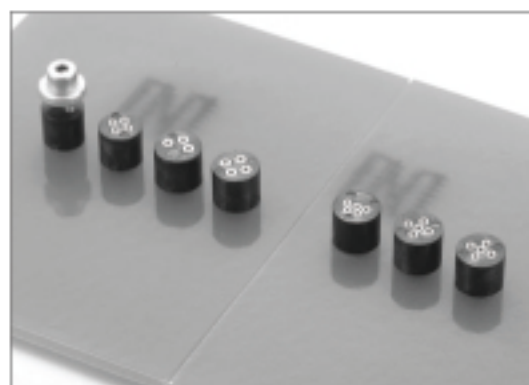
- Power of Insertion and Removal.....30g and over/Pin

■ Operating Temperature -40~+125°C



■ Line Up

P/N	Adaptive Pin	Adaptive PCB Hole W
LQ-203	0.4~0.5 φ	0.6~0.7 φ
LQ-204	0.4~0.5 φ	0.6~0.7 φ
LQ-253	0.4~0.5 φ	0.7~0.8 φ
LQ-254	0.4~0.5 φ	0.7~0.8 φ
LQ-245	0.25~0.40 φ	0.6 φ
LQ-255	0.25~0.35 φ	0.6 φ
LQ-2555	0.4~0.5 φ	0.7~0.8 φ



■ Dimention

LQ-203	LQ-204	LQ-253	LQ-254	LQ-245	LQ-255	LQ-2555

※If you cannot find out adaptive socket, please inform the spec.

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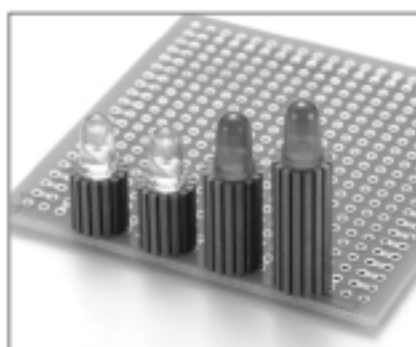
<http://www.mac8usa.com>

LMC Series / Heat-Release LED Spacer (10/pack)

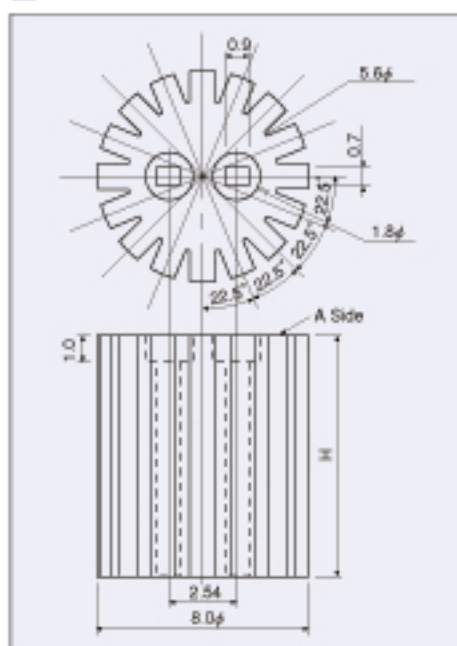
PAT.P

- Can lower peak heat-temperature of LED (down 7-20%)
- Can extend LED lifetime
- Material.....Special PPS Black (UL94V-0)
- Heat Conductivity.....5W/m·k
- Reflow.....Possible
- Operating Temperature.....-40~+125°C
- Adaptive LED.....3 φ, 5 φ LED
 - Pitch.....2.54mm, 2.5mm
 - Diameter...0.5", 0.5 φ, 0.6" and below,
 - 0.6 φ and below

N/O	H
LMC-7	7
LMC-8	8
LMC-9	9
LMC-10	10
LMC-11	11
LMC-12	12
LMC-13	13
LMC-14	14
LMC-15	15
LMC-20	20

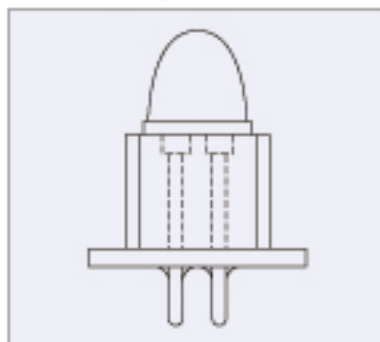


■ Dimensions



■ Notice:

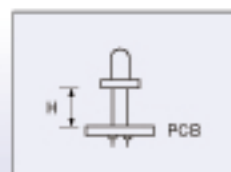
Please insert LED from A side, and make LED contact with the Spacer



■ Heat-Release Test Data: Maximum Temperature

H (mm)	No Spacer	With LMC	Difference
7	76°C	67°C	- 9°C
10	75°C	65°C	-10°C
15	79°C	65°C	-14°C
20	82°C	65°C	-17°C

(This is reference value, not guaranteed value)



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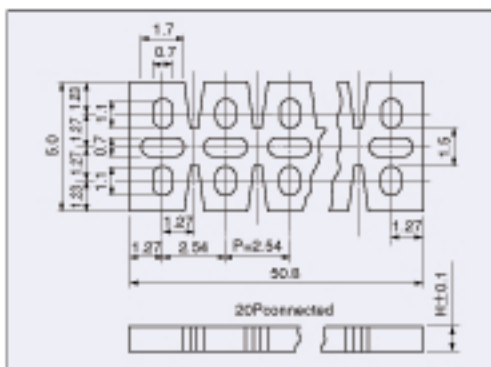
LR Series, LW-1 / LED Spacer

Connected LED Spacer [LR Series] (10pcs/package)

PAT

- For 3 ϕ & 5 ϕ LED
- Pitch: 2.54mm X 20P
- Can make the number of connections by yourself (from 1P to 20P)
 - ※ Can cut it by nipper
- Can place LED vertically and horizontally
- Can use for 2 and 3 terminal LED
- Material.....PCT Plastic (UL94V-0)
- Color.....Black
- Operating Temperature.....-40~+125°C

N/O	H (mm)
LR-1	1.0
LR-1.5	1.5
LR-2	2.0
LR-2.5	2.5
LR-3	3.0
LR-3.5	3.5
LR-4	4.0
LR-4.5	4.5
LR-5	5.0
LR-5.5	5.5
LR-6	6.0

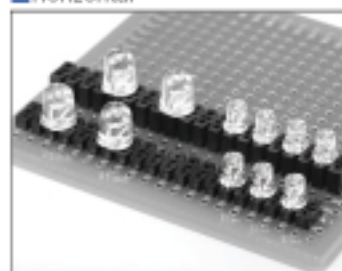


- You can order the number of connections you prefer.
LR-6-5P

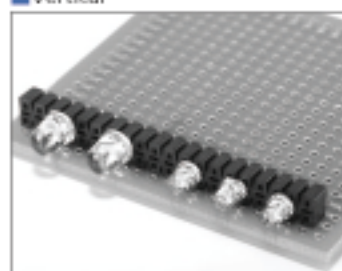
※ Standard Type=20P



■ Horizontal



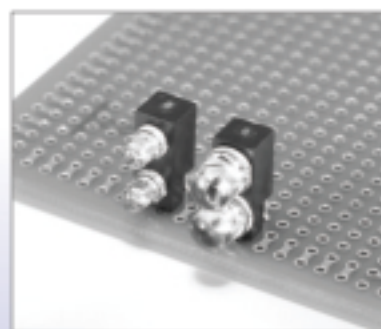
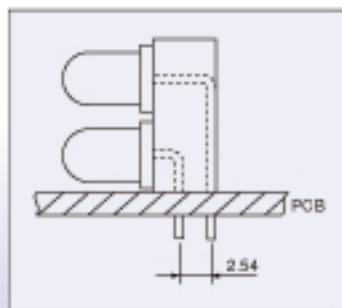
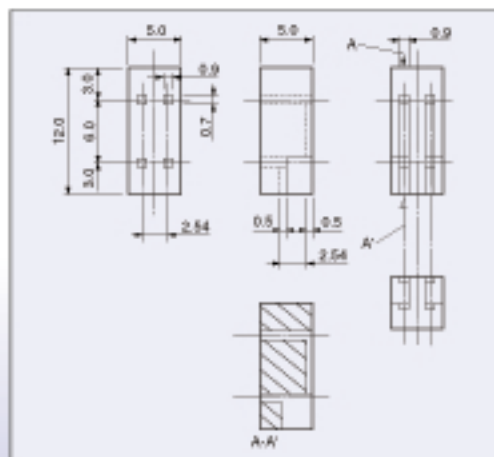
■ Vertical



LED Spacer (Double type) [LW-1] (100pcs/package)

PAT

- Can use for 3 & 5 ϕ LED
 - Insert terminal of LEDs into the holes and bend them at right angle.
 - Material.....PBT Plastic(UL94V-0)
 - Color.....Black
 - Operating Temperature.....-40~+125°C
- ※You can select this triple type: LWT series



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NC Series / Flat Plate for SMT

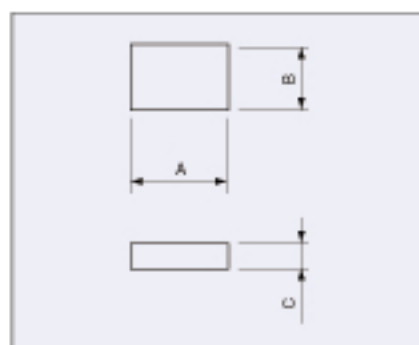
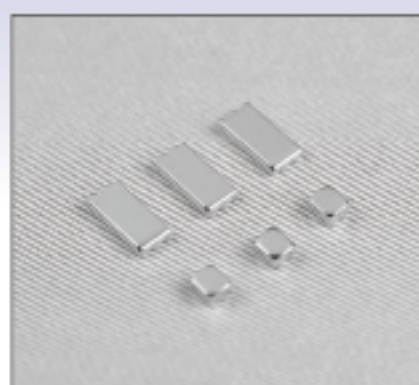
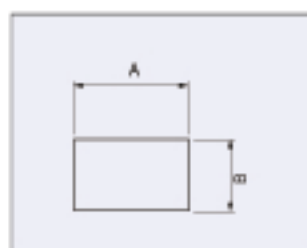
- Can use as Connector, Jumper&Test Point(No limit for this usage)
- Material.....Phosphor Bronze
- Finish.....Plated Au (Sn) over Ni base

N/O	A	B	C	Package	Finish
NC-0.5-1.5-T-SN	1.5	0.75	0.5	3000pcs/reel	Sn
NC-0.5-1.5-T	1.5	0.75	0.5	3000pcs/reel	Au
NC-0.5-2.0-T-SN	2.0	1.25	0.5	3000pcs/reel	Sn
NC-0.5-2.0-T	2.0	1.25	0.5	3000pcs/reel	Au
NC-0.5-3.2-T-SN	3.2	1.6	0.5	3000pcs/reel	Sn
NC-0.5-3.2-T	3.2	1.6	0.5	3000pcs/reel	Au
NC-0.65-1.3-T-SN	1.3	1.1	0.65	3000pcs/reel	Sn
NC-0.65-1.3-T	1.3	1.1	0.65	3000pcs/reel	Au

※ You can order bulk type (1000/package)

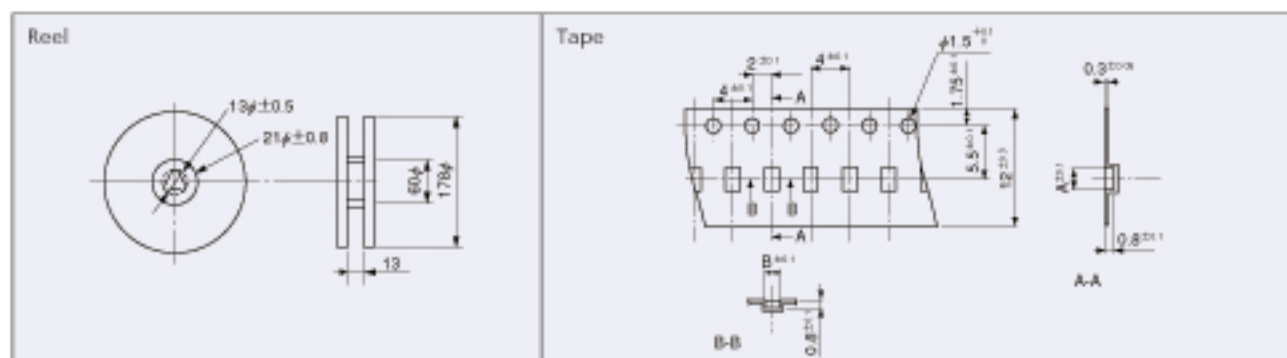
■ Recommended Land Diameter

	A	B
NC-0.5-1.5	1.5 and over	0.75 and over
NC-0.5-2.0	2.0 and over	1.25 and over
NC-0.5-3.2	3.2 and over	1.6 and over
NC-0.65-1.3	1.3 and over	1.1 and over



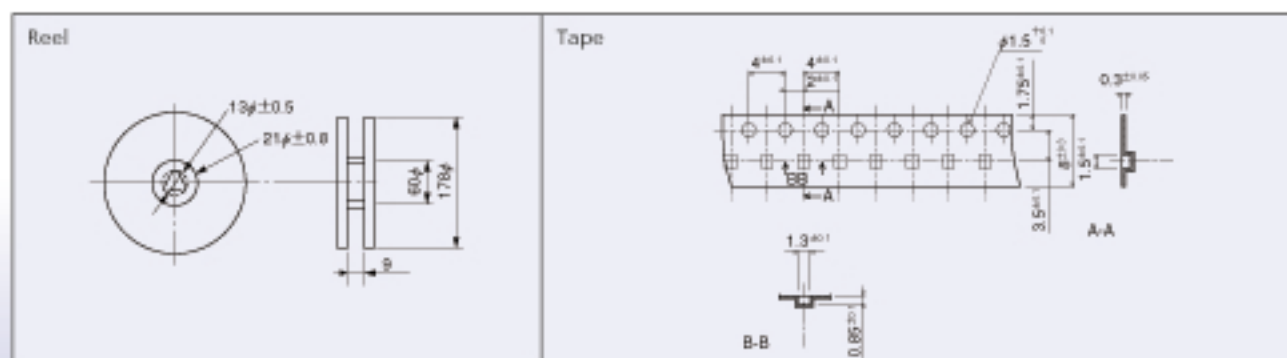
■ Dimensions

■ NC-0.5-2.0, NC-0.5-3.2



	A	B
NC-0.5-1.5	1.8	1.05
NC-0.5-2.0	2.3	1.55
NC-0.5-3.2	3.5	1.9

■ NC-0.65-1.3



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SN series / Screws for Surface Mount Board

- Can be mounted by auto-insertion system
- Can attach various parts
- Can apply electric current to it
- Can prevent displacement with jut of the bottom (need 1 φ TH)
- Material: Brass
- Finish: Plated Sn over Ni base
- Current Capacity: 45N 40A
 35N 30A
 2.65N ... 20A
 25N 10A



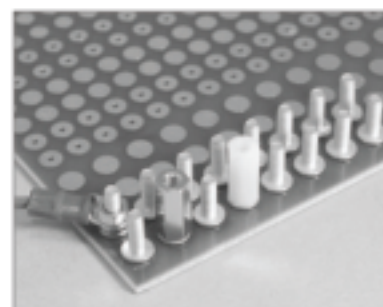
- Recommended Land Diameter:



- C φ
- | |
|------------|
| 4SN.....9 |
| 3SN.....7 |
| 2.6SN... 6 |
| 2SN.....5 |

- ### ■ Tightening Torque

- 45N.....6kg + f + cm and below
35N.....5kg + f + cm and below
2.65N...4kg + f + cm and below
25N.....2kg + f + cm and below



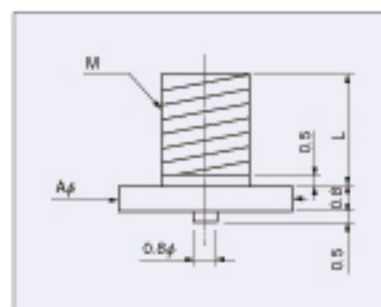
- #### ■ Recommended Cream Solder Thickness

150~200 μ

※need soldering in TH, too

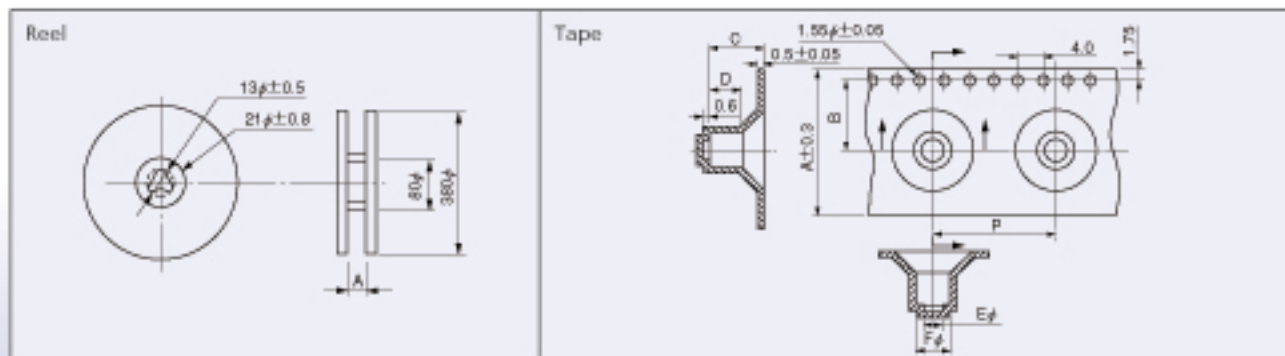
N/O	L	A	M	pcs/ reel	Tape (mm)						
					A	B	C	D	E	F	P
45N-4-T	4	8	M4	600	24	11.5	5.1	3.4	6	8.2	20
45N-5-T	5	8	M4	500	24	11.5	6.1	4.1	6	8.2	20
45N-6-T	6	8	M4	400	24	11.5	7.0	4.7	6	8.2	20
45N-7-T	7	8	M4	400	24	11.5	8.1	5.5	6	8.2	20
45N-8-T	8	8	M4	300	24	11.5	9.1	6.1	6	8.2	20
45N-9-T	9	8	M4	300	24	11.5	10.1	6.7	6	8.2	20
35N-4-T	4	6	M3	900	24	11.5	5.1	3.4	4	6.2	16
35N-5-T	5	6	M3	800	24	11.5	6.1	4.1	4	6.2	16
35N-6-T	6	6	M3	600	24	11.5	7.0	4.7	4	6.2	16
35N-7-T	7	6	M3	600	24	11.5	8.2	5.5	4	6.2	16
35N-8-T	8	6	M3	500	24	11.5	9.1	6.1	4	6.2	16
2.65N-4-T	4	5	M2.6	900	24	11.5	4.9	3.2	3.2	5.2	16
2.65N-5-T	5	5	M2.6	800	24	11.5	5.9	3.9	3.2	5.2	16
2.65N-6-T	6	5	M2.6	600	24	11.5	6.9	4.5	3.2	5.2	16
2.65N-7-T	7	5	M2.6	600	24	11.5	7.9	5.2	3.2	5.2	16
25N-4-T	4	4	M2	1200	16	7.5	4.8	3.2	2.8	4.2	12
25N-5-T	5	4	M2	1000	16	7.5	5.8	3.9	2.8	4.2	12
25N-6-T	6	4	M2	900	16	7.5	6.8	4.5	2.8	4.2	12

※ You can order bulk type (100pcs/pack)

M4 $P=0.7$ M3 $P=0.5$ M2.6 ... $P=0.45$

M2 $P=0.4$

■ Dimensions



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PZ-3 Series / LED Plastic Holder for Panel (10/pack)

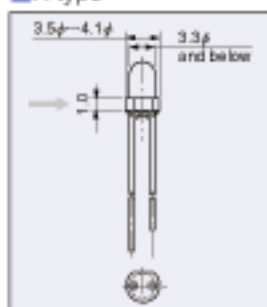
PAT

- PZ-3 for 3 ϕ LED
- Can press fit to panel with this holder
- Color: Black, Red, Yellow, Green, Blue, White
- Material..... Plastic.....PBT (UL94V-0)
Spring Washer.....Stainless
- Adaptive Panel Thickness.....1.0~2.0mm
- Adaptive Panel Diameter.....6.1~6.2 ϕ
- Operating Temperature.....-40~+125°C

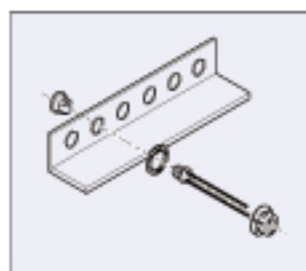
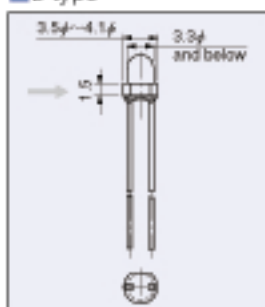


■ Adaptive LED Size

■ A type



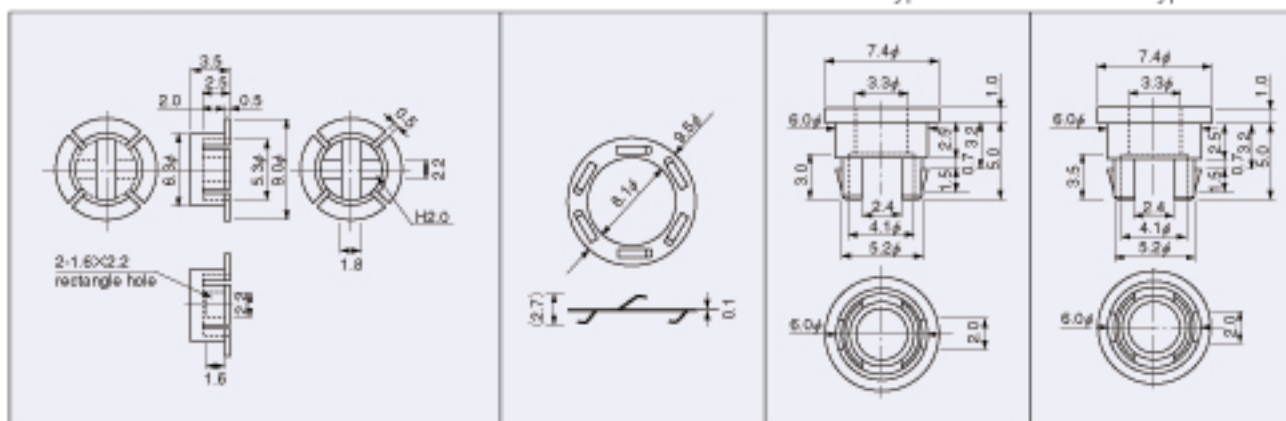
■ B type



Installation

※ Please confirm LEDs are adaptive with this holder.

■ Dimensions



PZ-3-1

PZ-3-1.5

※ Please specify color when you order.

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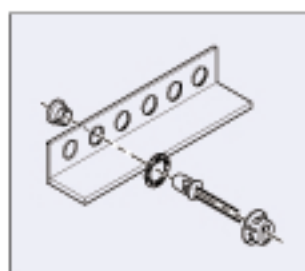
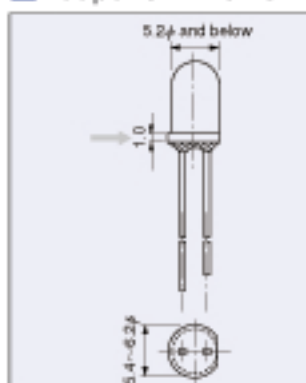
PZ-5 Series / LED Plastic Holder for Panel (10/pack)

- PZ-5 for 5 ϕ LED
- Can press fit to panel with this holder
- Color: Black, Red, Yellow, Green, Blue, White
- Material..... Plastic.....PBT (UL94V-0)
Spring Washer.....Stainless
- Adaptive Panel Thickness.....1.0~2.0mm
- Adaptive Panel Diameter.....7.4~7.5 ϕ
- Operating Temperature.....-40~+125°C

PAT



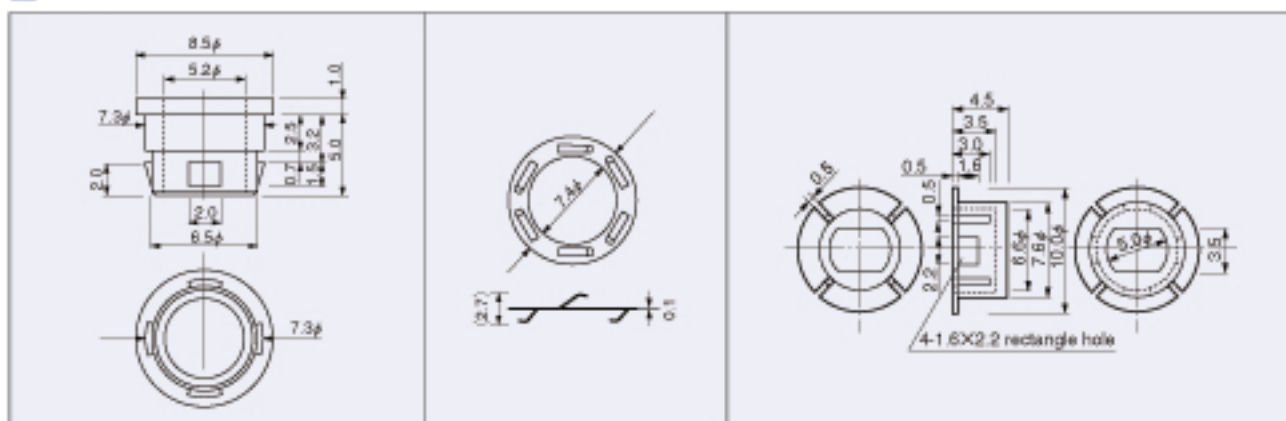
■ Adaptive LED Size



Installation

※ Please confirm LEDs are adaptive with this holder.

■ Dimensions



※ Please specify color when you order.

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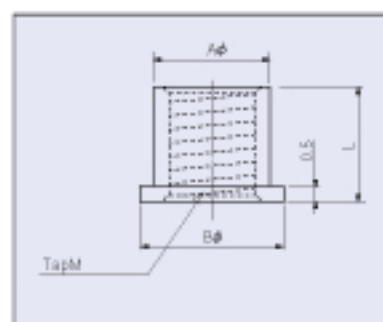
e-mail: info@mac8usa.com Phone: 818.703.5103

<http://www.mac8usa.com>

SSB Series / Tapped Spacer for Surface Mount Board

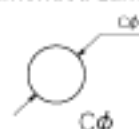
- Can be mounted by auto-insertion system
- Can be attached by reflow
- Taping type has adsorption cap for vacuum pick. It needs to be removed after reflow
- Material: Brass
- Finish: Plated Sn over Ni base
- Tap: M3 P=0.5, M2.6 P=0.45, M2 P=0.4

PAT



N/O	A	B	L	M	Package
3SSB-2.5	4.0	5.0	2.5	M3	500pcs/reel
3SSB-3.0	4.0	5.0	3.0	M3	500pcs/reel
3SSB-3.5	4.0	5.0	3.5	M3	400pcs/reel
3SSB-4.0	4.0	5.0	4.0	M3	400pcs/reel
3SSB-4.5	4.0	5.0	4.5	M3	350pcs/reel
3SSB-5.0	4.0	5.0	5.0	M3	350pcs/reel
2.6SSB-2.5	3.5	4.5	2.5	M2.6	500pcs/reel
2.6SSB-3.0	3.5	4.5	3.0	M2.6	500pcs/reel
2.6SSB-3.5	3.5	4.5	3.5	M2.6	400pcs/reel
2.6SSB-4.0	3.5	4.5	4.0	M2.6	400pcs/reel
2.6SSB-4.5	3.5	4.5	4.5	M2.6	350pcs/reel
2.6SSB-5.0	3.5	4.5	5.0	M2.6	350pcs/reel
2SSB-2.0	3.0	4.0	2.0	M2	500pcs/reel
2SSB-2.5	3.0	4.0	2.5	M2	500pcs/reel
2SSB-3.0	3.0	4.0	3.0	M2	500pcs/reel
2SSB-3.5	3.0	4.0	3.5	M2	400pcs/reel
2SSB-4.0	3.0	4.0	4.0	M2	400pcs/reel
2SSB-4.5	3.0	4.0	4.5	M2	350pcs/reel
2SSB-5.0	3.0	4.0	5.0	M2	350pcs/reel

Recommended Land Diameter



- 3SSB.....5.5 φ
- 2.6SSB... 5.0 φ
- 2SSB.....4.5 φ

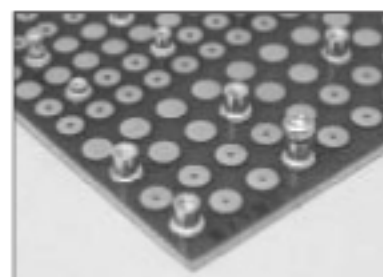
Tightening Torque

- 3SSB.....3.0kg.f.cm and below
- 2.6SSB... 3.0kg.f.cm and below
- 2SSB.....1.0kg.f.cm and below

Recommended Cream Solder Thickness

150~200 μ

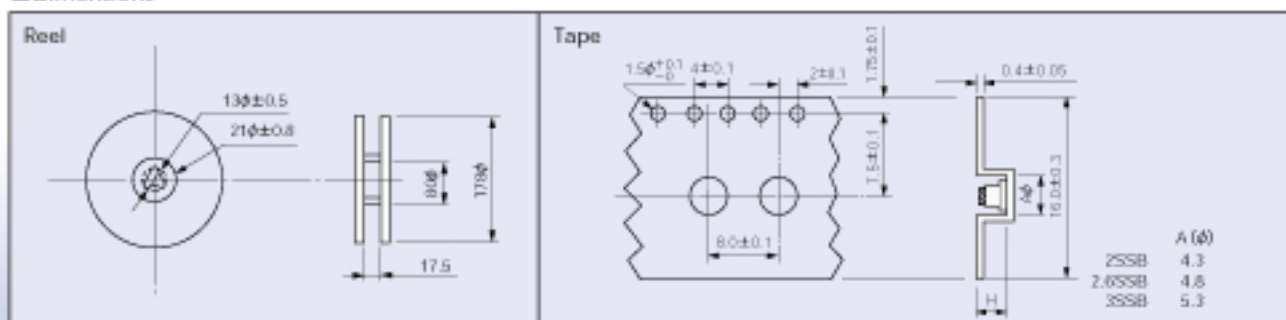
- 3SSB - 2.5~3.0 } 3.4
- 2.6SSB - 2.5~3.0 } 3.4
- 2SSB - 2.0~3.0 } 3.4
- 3SSB - 3.5~4.0 } 4.4
- 2.6SSB - 3.5~4.0 } 4.4
- 2SSB - 3.5~4.0 } 4.4
- 3SSB - 4.5~5.0 } 5.4
- 2.6SSB - 4.5~5.0 } 5.4
- 2SSB - 4.5~5.0 } 5.4



You can order bulk type (no adsorption seal)

3SSB-3.0-B
add -B for bulk type
(100/package)

Dimensions



※SSB series is improved version of SSA Series.

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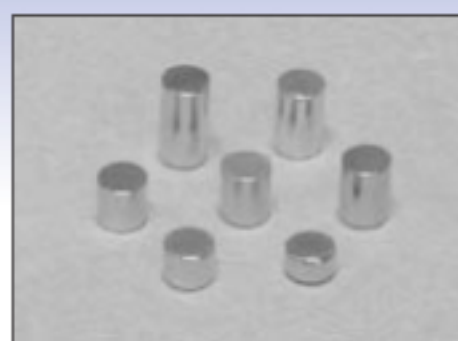
Contact

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<http://www.mac8usa.com>

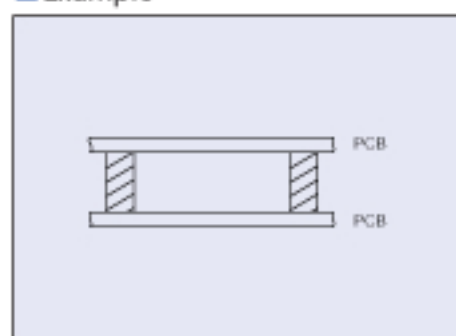
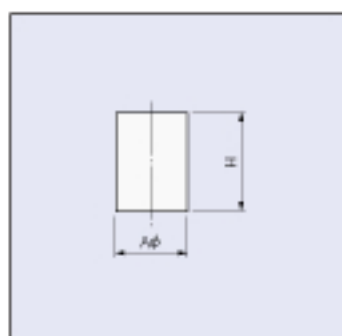
NS series / Base for SMT

- Can use as board to board connector
- Can use as contact
- No limit to use
- Material.....Cu
- Finish.....Plated Au over Ni base
- Current capacity.....30A



■ Example

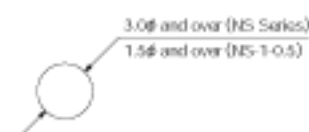
N/O	A φ	H	Package
NS-0.5	2.5	0.5	2000pcs/reel
NS-1.0	2.5	1.0	1500pcs/reel
NS-1.5	2.5	1.5	1000pcs/reel
NS-2.0	2.5	2.0	1000pcs/reel
NS-2.5	2.5	2.5	800pcs/reel
NS-3.0	2.5	3.0	700pcs/reel
NS-3.5	2.5	3.5	600pcs/reel
NS-4.0	2.5	4.0	500pcs/reel
NS-5.0	2.5	5.0	300pcs/reel
NS-1-0.5	1.0	0.5	3000pcs/reel



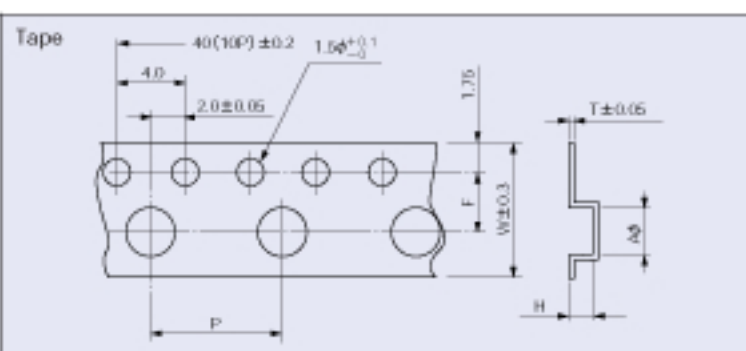
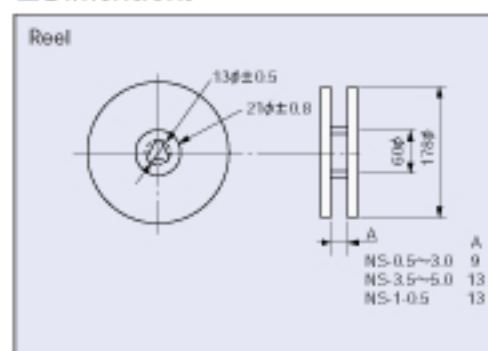
- You can order bulk type

NS - 0.5 - B
 -B for bulk type
 (1000/package)

■ Recommended Land Diameter



■ Dimensions



N/O	H	A (φ)	W	P	F	T
NS-0.5	0.7	2.7	8	8	3.5	0.3
NS-1.0	1.2	2.7	8	8	3.5	0.3
NS-1.5	1.7	2.7	8	8	3.5	0.3
NS-2.0	2.2	2.7	8	8	3.5	0.3
NS-2.5	2.7	2.7	8	8	3.5	0.3
NS-3.0	3.2	2.7	8	8	3.5	0.3
NS-3.5	3.7	2.7	12	8	5.5	0.4
NS-4.0	4.2	2.7	12	8	5.5	0.4
NS-5.0	5.2	2.7	12	8	5.5	0.4
NS-1-0.5	0.7	1.2	12	4	5.5	0.3

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TH Series / Threaded Insert

PAT.P

- Can Change through hole to threaded hole (M1.0, M1.2, M1.4, M1.6, M1.7, M2, M2.6, M3).
Taping type has adsorption seal for vacuum pick. It needs to be removed after reflow.

Material.....Brass

Finish.....Plated Sn over Ni base

Current Capacity

TH-0.8-M1.0..... 10A TH-1.6-M1.7..... 15A

TH-0.8-M1.2..... 12A TH-1.6-M2..... 20A

TH-0.8-M1.4..... 12A TH-1.6-M2.6..... 20A

TH-1.6-M1.6..... 15A TH-1.6-M3..... 30A

Tightening Torque

TH-0.8-M1.0..... 0.3kgf-cm (2.94N-cm) and below

TH-0.8-M1.2..... 0.6kgf-cm (5.89N-cm) and below

TH-0.8-M1.4..... 1.0kgf-cm (9.8N-cm) and below

TH-1.6-M1.6..... 1.5kgf-cm (14.7N-cm) and below

TH-1.6-M1.7..... 1.5kgf-cm (14.7N-cm) and below

TH-1.6-M2..... 1.5kgf-cm (14.7N-cm) and below

TH-1.6-M2.6..... 3kgf-cm (29.4N-cm) and below

TH-1.6-M3..... 5kgf-cm (49N-cm) and below (X-direction)

3kgf-cm (29.4N-cm) and below (Y-direction)

- Adaptive PCB Thickness.....1.6t and over (TH-1.6 series), 0.8t and over (TH-0.8series)
(other PCB thickness applicable)

Recommended Metal Mask Thickness.....150~200μm

Product N/O

N/O	A	B	C	D	M	Package
TH-0.8-M1.0	2.5	1.8	0.7	0.5	M1.0 P=0.25	1000/reel
TH-0.8-M1.2	2.5	1.8	0.7	0.5	M1.2 P=0.25	1000/reel
TH-0.8-M1.4	2.7	2.0	0.7	0.7	M1.4 P=0.3	1000/reel
TH-1.6-M1.6	3.0	2.2	1.5	0.3	M1.6 P=0.35	900/reel
TH-1.6-M1.7	3.0	2.3	1.5	0.3	M1.7 P=0.35	900/reel
TH-1.6-M2	4.0	2.5	1.5	0.3	M2 P=0.4	900/reel
TH-1.6-M2.6	4.5	3.1	1.5	0.3	M2.6 P=0.45	900/reel
TH-1.6-M3	5.0	3.5	1.5	0.3	M3 P=0.5	900/reel

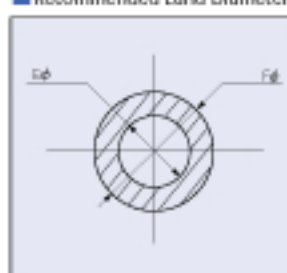
You can order bulk type (no adsorption seal)

TH-1.6-M3-B

add -B for bulk type (100/package)

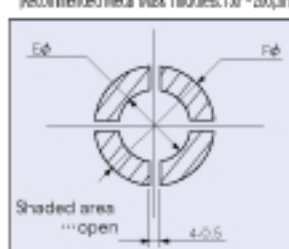
※Mounter should have automatic recognition system

Recommended Land Diameter



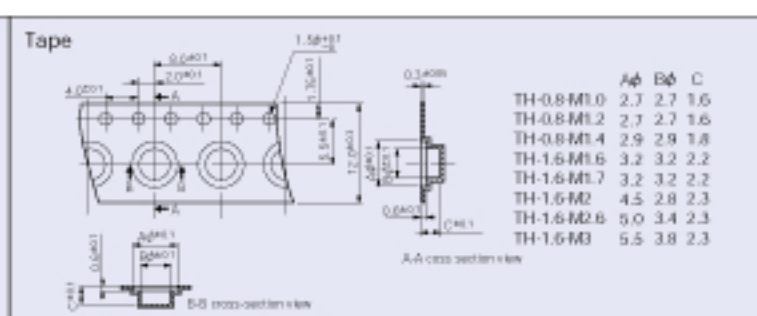
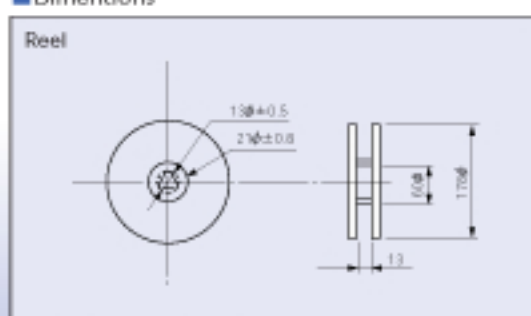
Recommended Metal mask

Recommended Metal Mask Thickness: 150~200μm



N/O	E φ	F φ
TH-0.8-M1.0	1.8	3.5
TH-0.8-M1.2	2.0	3.5
TH-0.8-M1.4	2.2	4.0
TH-1.6-M1.6	2.4	4.0
TH-1.6-M1.7	2.5	4.0
TH-1.6-M2	2.7	5.0
TH-1.6-M2.6	3.3	5.5
TH-1.6-M3	3.7	6.0

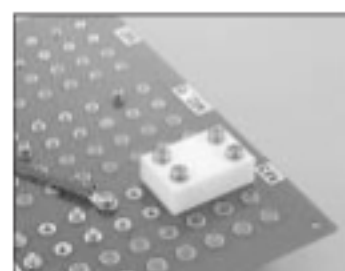
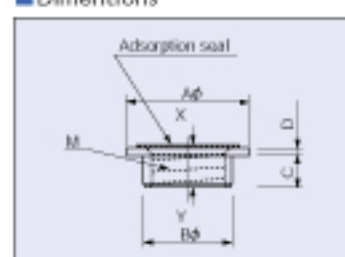
Dimensions



※For Thru Hole PCB only



Dimensions



Screws can be inserted both from component and from solder side

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TH-1.6 Series / Threaded Spacer

- This Spacer is mounted on PCB by inserting into through-hole.
Screws can be inserted both from component and from solder side
Taping type has adsorption seal for vacuum pick. It needs to be removed after reflow.

■ Material.....Brass

■ Finish.....Plated Sn over Ni base

■ Current capacity

TH-1.6-□-M2.....20A

TH-1.6-□-M2.6.....20A

TH-1.6-□-M3.....30A

■ Tightening Torque

TH-1.6-□-M2.....1.5kgf-cm (14.7N-cm) and below

TH-1.6-□-M2.6.....3kgf-cm (29.4N-cm) and below

TH-1.6-□-M3.....5kgf-cm (49N-cm) and below (X-direction)
3kgf-cm (29.4N-cm) and below (Y-direction)

■ Adaptive PCB Thickness.....1.6t and over
(other PCB thickness applicable)

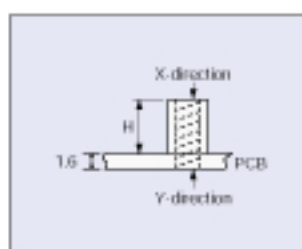
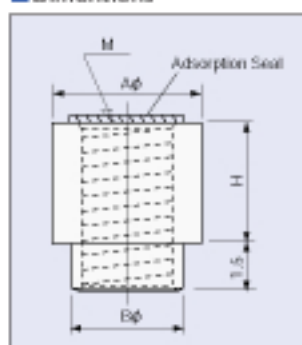
※ Mounter should have automatic recognition system

■ Product N/O

N/O	A	B	H	M	Package
TH-1.6-0.5-M2	4.0	2.5	0.5	M2	450
TH-1.6-1.0-M2	4.0	2.5	1.0	M2	450
TH-1.6-1.5-M2	4.0	2.5	1.5	M2	450
TH-1.6-2.0-M2	4.0	2.5	2.0	M2	450
TH-1.6-2.5-M2	4.0	2.5	2.5	M2	350
TH-1.6-3.0-M2	4.0	2.5	3.0	M2	350
TH-1.6-3.5-M2	4.0	2.5	3.5	M2	350
TH-1.6-4.0-M2	4.0	2.5	4.0	M2	250
TH-1.6-4.5-M2	4.0	2.5	4.5	M2	250
TH-1.6-5.0-M2	4.0	2.5	5.0	M2	250
TH-1.6-0.5-M2.6	4.5	3.1	0.5	M2.6	450
TH-1.6-1.0-M2.6	4.5	3.1	1.0	M2.6	450
TH-1.6-1.5-M2.6	4.5	3.1	1.5	M2.6	450
TH-1.6-2.0-M2.6	4.5	3.1	2.0	M2.6	450
TH-1.6-2.5-M2.6	4.5	3.1	2.5	M2.6	350
TH-1.6-3.0-M2.6	4.5	3.1	3.0	M2.6	350
TH-1.6-3.5-M2.6	4.5	3.1	3.5	M2.6	350
TH-1.6-4.0-M2.6	4.5	3.1	4.0	M2.6	250
TH-1.6-4.5-M2.6	4.5	3.1	4.5	M2.6	250
TH-1.6-5.0-M2.6	4.5	3.1	5.0	M2.6	250
TH-1.6-5.5-M2.6	4.5	3.1	5.5	M2.6	350
TH-1.6-6.0-M2.6	4.5	3.1	6.0	M2.6	350
TH-1.6-6.5-M2.6	4.5	3.1	6.5	M2.6	300
TH-1.6-7.0-M2.6	4.5	3.1	7.0	M2.6	300
TH-1.6-7.5-M2.6	4.5	3.1	7.5	M2.6	300
TH-1.6-8.0-M2.6	4.5	3.1	8.0	M2.6	300
TH-1.6-0.5-M3	5.0	3.5	0.5	M3	450
TH-1.6-1.0-M3	5.0	3.5	1.0	M3	450
TH-1.6-1.5-M3	5.0	3.5	1.5	M3	450
TH-1.6-2.0-M3	5.0	3.5	2.0	M3	450
TH-1.6-2.5-M3	5.0	3.5	2.5	M3	350
TH-1.6-3.0-M3	5.0	3.5	3.0	M3	350
TH-1.6-3.5-M3	5.0	3.5	3.5	M3	350
TH-1.6-4.0-M3	5.0	3.5	4.0	M3	250
TH-1.6-4.5-M3	5.0	3.5	4.5	M3	250
TH-1.6-5.0-M3	5.0	3.5	5.0	M3	250
TH-1.6-5.5-M3	5.0	3.5	5.5	M3	350
TH-1.6-6.0-M3	5.0	3.5	6.0	M3	350
TH-1.6-6.5-M3	5.0	3.5	6.5	M3	300
TH-1.6-7.0-M3	5.0	3.5	7.0	M3	300
TH-1.6-7.5-M3	5.0	3.5	7.5	M3	300
TH-1.6-8.0-M3	5.0	3.5	8.0	M3	300
TH-1.6-8.5-M3	5.0	3.5	8.5	M3	250
TH-1.6-9.0-M3	5.0	3.5	9.0	M3	250
TH-1.6-9.5-M3	5.0	3.5	9.5	M3	250
TH-1.6-10-M3	5.0	3.5	10	M3	250

※ For Thru Hole PCB only

■ Dimensions



M2 P=0.4

M2.6 P=0.45

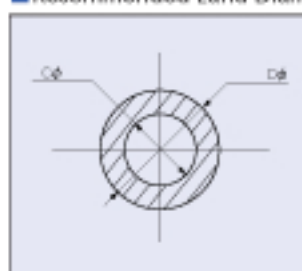
M3 P=0.5

■ You can order bulk type (no adsorption seal)

TH-1.6-0.5-M2-B

add -B for bulk type (100/package)

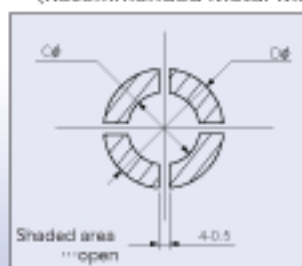
■ Recommended Land Diameter



N/O	Cφ	Dφ
TH-1.6-□-M2	2.7	5.0
TH-1.6-□-M2.6	3.3	5.5
TH-1.6-□-M3	3.7	6.0

■ Recommended Metal mask

(Recommended Metal Mask Thickness:150~200μm)



N/O	Cφ	Dφ
TH-1.6-□-M2	2.7	5.0
TH-1.6-□-M2.6	3.3	5.5
TH-1.6-□-M3	3.7	6.0

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TH-0.8 Series / Threaded Spacer

PAT.P

- This Spacer is mounted on PCB by inserting into through-hole.
Screws can be inserted both from component and from solder side
Taping type has adsorption seal for vacuum pick. It needs to be removed after reflow.

■ Material.....Brass

■ Finish.....Plated Sn over Ni base

■ Current Capacity

TH-0.8-□-M2..... 20A

TH-0.8-□-M2.6..... 20A

TH-0.8-□-M3..... 30A

TH-0.8-□-M4..... 40A

■ Tightening Torque

TH-0.8-□-M2..... 1.5kgf-cm (14.7N-cm) and below

TH-0.8-□-M2.6..... 3kgf-cm (29.4N-cm) and below

TH-0.8-□-M3..... 5kgf-cm (49N-cm) and below (X-direction)
3kgf-cm (29.4N-cm) and below (Y-direction)

TH-0.8-□-M4..... 8kgf-cm (78.4N-cm) and below

■ Adaptive PCB Thickness.....0.8t and over

(other PCB thickness applicable)

※ Mounter should have automatic recognition system

■ Product N/O

N/O	A	B	H	M	Package
TH-0.8-1.0-M2	4.0	2.5	1.0	M2	450
TH-0.8-1.5-M2	4.0	2.5	1.5	M2	450
TH-0.8-2.0-M2	4.0	2.5	2.0	M2	450
TH-0.8-2.5-M2	4.0	2.5	2.5	M2	350
TH-0.8-3.0-M2	4.0	2.5	3.0	M2	350
TH-0.8-3.5-M2	4.0	2.5	3.5	M2	350
TH-0.8-4.0-M2	4.0	2.5	4.0	M2	250
TH-0.8-4.5-M2	4.0	2.5	4.5	M2	250
TH-0.8-5.0-M2	4.0	2.5	5.0	M2	250
TH-0.8-1.0-M2.6	4.5	3.1	1.0	M2.6	450
TH-0.8-1.5-M2.6	4.5	3.1	1.5	M2.6	450
TH-0.8-2.0-M2.6	4.5	3.1	2.0	M2.6	450
TH-0.8-2.5-M2.6	4.5	3.1	2.5	M2.6	350
TH-0.8-3.0-M2.6	4.5	3.1	3.0	M2.6	350
TH-0.8-3.5-M2.6	4.5	3.1	3.5	M2.6	350
TH-0.8-4.0-M2.6	4.5	3.1	4.0	M2.6	250
TH-0.8-4.5-M2.6	4.5	3.1	4.5	M2.6	250
TH-0.8-5.0-M2.6	4.5	3.1	5.0	M2.6	250
TH-0.8-5.5-M2.6	4.5	3.1	5.5	M2.6	350
TH-0.8-6.0-M2.6	4.5	3.1	6.0	M2.6	350
TH-0.8-6.5-M2.6	4.5	3.1	6.5	M2.6	300
TH-0.8-7.0-M2.6	4.5	3.1	7.0	M2.6	300
TH-0.8-7.5-M2.6	4.5	3.1	7.5	M2.6	300
TH-0.8-8.0-M2.6	4.5	3.1	8.0	M2.6	300
TH-0.8-1.2-M3	5.0	3.5	1.2	M3	450
TH-0.8-1.5-M3	5.0	3.5	1.5	M3	450
TH-0.8-2.0-M3	5.0	3.5	2.0	M3	450
TH-0.8-2.5-M3	5.0	3.5	2.5	M3	350
TH-0.8-3.0-M3	5.0	3.5	3.0	M3	350
TH-0.8-3.5-M3	5.0	3.5	3.5	M3	350
TH-0.8-4.0-M3	5.0	3.5	4.0	M3	250
TH-0.8-4.5-M3	5.0	3.5	4.5	M3	250
TH-0.8-5.0-M3	5.0	3.5	5.0	M3	250
TH-0.8-5.5-M3	5.0	3.5	5.5	M3	350
TH-0.8-6.0-M3	5.0	3.5	6.0	M3	350
TH-0.8-6.5-M3	5.0	3.5	6.5	M3	300
TH-0.8-7.0-M3	5.0	3.5	7.0	M3	300
TH-0.8-7.5-M3	5.0	3.5	7.5	M3	300
TH-0.8-8.0-M3	5.0	3.5	8.0	M3	300
TH-0.8-8.5-M3	5.0	3.5	8.5	M3	250
TH-0.8-9.0-M3	5.0	3.5	9.0	M3	250
TH-0.8-9.5-M3	5.0	3.5	9.5	M3	250
TH-0.8-10-M3	5.0	3.5	10	M3	250

N/O	A	B	H	M	Package
TH-0.8-2.0-M4	7.0	5.5	2.0	M4	350
TH-0.8-2.5-M4	7.0	5.5	2.5	M4	250
TH-0.8-3.0-M4	7.0	5.5	3.0	M4	250
TH-0.8-3.5-M4	7.0	5.5	3.5	M4	200
TH-0.8-4.0-M4	7.0	5.5	4.0	M4	200
TH-0.8-4.5-M4	7.0	5.5	4.5	M4	450
TH-0.8-5.0-M4	7.0	5.5	5.0	M4	450
TH-0.8-5.5-M4	7.0	5.5	5.5	M4	300
TH-0.8-6.0-M4	7.0	5.5	6.0	M4	300
TH-0.8-6.5-M4	7.0	5.5	6.5	M4	250
TH-0.8-7.0-M4	7.0	5.5	7.0	M4	250
TH-0.8-7.5-M4	7.0	5.5	7.5	M4	200
TH-0.8-8.0-M4	7.0	5.5	8.0	M4	200
TH-0.8-8.5-M4	7.0	5.5	8.5	M4	200
TH-0.8-9.0-M4	7.0	5.5	9.0	M4	200
TH-0.8-9.5-M4	7.0	5.5	9.5	M4	200
TH-0.8-10-M4	7.0	5.5	10	M4	200

M2 P=0.4

M2.6 P=0.45

M3 P=0.5

M4 P=0.7

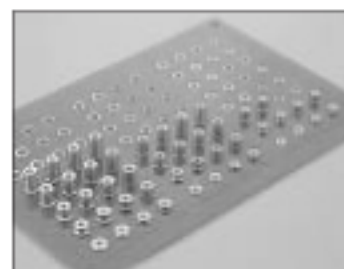
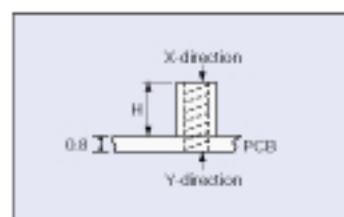
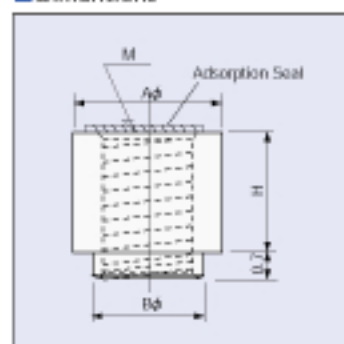
■ You can order bulk type (no adsorption seal)

TH-0.8-0.5-M2-B

└ add -B for bulk type (100/package)



■ Dimensions



※ For Throgh Hole PCB only

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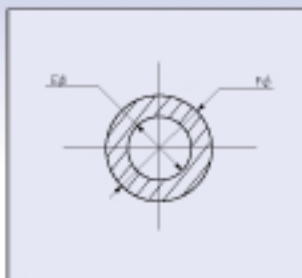
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<http://www.mac8usa.com>

TH-0.8 Series / Threaded Spacer

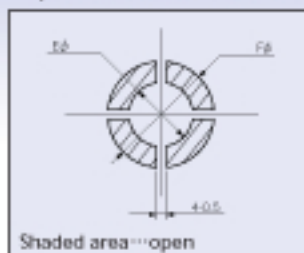


■ Recommended Land Diameter



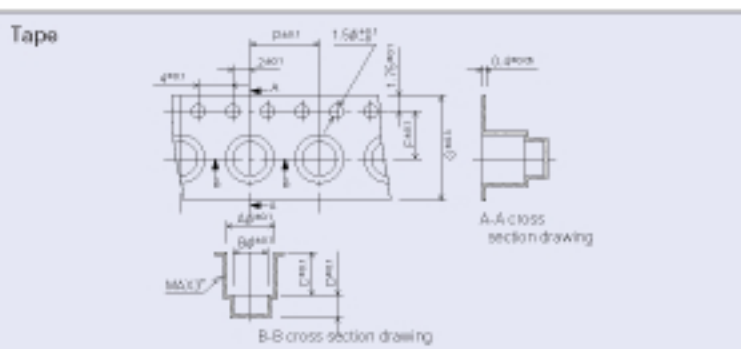
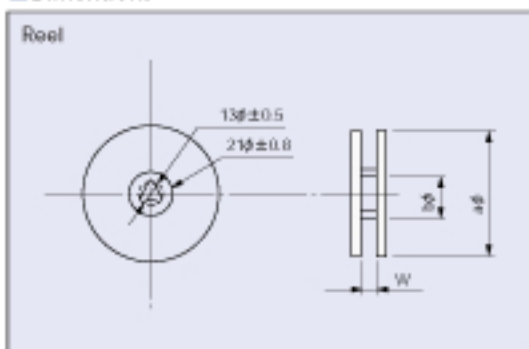
- Recommended Metal mask

(Recommended Metal Mask Thickness: 150~200 μ)



N/O	+0.1 -0	
	E ϕ	F ϕ
TH-0.8-□-M2	2.7	5.0
TH-0.8-□-M2.6	3.3	5.5
TH-0.8-□-M3	3.7	6.0
TH-0.8-□-M4	5.7	8.0

■ Dimensions



■ Product N/O

N/O	Reel			Tape							
	a(ϕ)	b(ϕ)	W	A	B	C	D	F	G	P	
TH-0.8-1.0-M2	178	60	13	4.3	2.8	1.3	1.7	5.5	12	8	
TH-0.8-1.5-M2	178	60	13	4.3	2.8	2.3	1.7	5.5	12	8	
TH-0.8-2.0-M2	178	60	13	4.3	2.8	2.3	1.7	5.5	12	8	
TH-0.8-2.5-M2	178	60	13	4.3	2.8	3.8	1.7	5.5	12	8	
TH-0.8-3.0-M2	178	60	13	4.3	2.8	3.8	1.7	5.5	12	8	
TH-0.8-3.5-M2	178	60	13	4.3	2.8	3.8	1.7	5.5	12	8	
TH-0.8-4.0-M2	178	60	13	4.3	2.8	5.3	1.7	5.5	12	8	
TH-0.8-4.5-M2	178	60	13	4.3	2.8	5.3	1.7	5.5	12	8	
TH-0.8-5.0-M2	178	60	13	4.3	2.8	5.3	1.7	5.5	12	8	
TH-0.8-1.0-M2.6	178	60	13	4.8	3.4	1.3	1.7	5.5	12	8	
TH-0.8-1.5-M2.6	178	60	13	4.8	3.4	2.3	1.7	5.5	12	8	
TH-0.8-2.0-M2.6	178	60	13	4.8	3.4	2.3	1.7	5.5	12	8	
TH-0.8-2.5-M2.6	178	60	13	4.8	3.4	3.8	1.7	5.5	12	8	
TH-0.8-3.0-M2.6	178	60	13	4.8	3.4	3.8	1.7	5.5	12	8	
TH-0.8-3.5-M2.6	178	60	13	4.8	3.4	3.8	1.7	5.5	12	8	
TH-0.8-4.0-M2.6	178	60	13	4.8	3.4	5.0	1.7	5.5	12	8	
TH-0.8-4.5-M2.6	178	60	13	4.8	3.4	5.0	1.7	5.5	12	8	
TH-0.8-5.0-M2.6	178	60	13	4.8	3.4	5.0	1.7	5.5	12	8	
TH-0.8-5.5-M2.6	254	80	17.5	4.8	0	6.8	0	7.5	16	12	
TH-0.8-6.0-M2.6	254	80	17.5	4.8	0	6.8	0	7.5	16	12	
TH-0.8-6.5-M2.6	254	680	17.5	4.8	0	7.8	0	7.5	16	12	
TH-0.8-7.0-M2.6	254	80	17.5	4.8	0	7.8	0	7.5	16	12	
TH-0.8-7.5-M2.6	254	80	17.5	4.8	0	8.8	0	7.5	16	12	
TH-0.8-8.0-M2.6	254	80	17.5	4.8	0	8.8	0	7.5	16	12	
TH-0.8-1.2-M3	178	60	13	5.3	3.8	1.5	1.7	5.5	12	8	
TH-0.8-1.5-M3	178	60	13	5.3	3.8	2.3	1.7	5.5	12	8	
TH-0.8-2.0-M3	178	60	13	5.3	3.8	2.3	1.7	5.5	12	8	
TH-0.8-2.5-M3	178	60	13	5.3	3.8	3.8	1.7	5.5	12	8	
TH-0.8-3.0-M3	178	60	13	5.3	3.8	3.8	1.7	5.5	12	8	
TH-0.8-3.5-M3	178	60	13	5.3	3.8	3.8	1.7	5.5	12	8	

M/O	Reel			Tape						
	a(φ)	b(φ)	W	A	B	C	D	F	G	P
TH-0.8-4.0-M3	178	60	13	5.3	3.8	5.3	1.7	5.5	12	8
TH-0.8-4.5-M3	178	60	13	5.3	3.8	5.3	1.7	5.5	12	8
TH-0.8-5.0-M3	178	60	13	5.3	3.8	5.3	1.7	5.5	12	8
TH-0.8-5.5-M3	254	80	17.5	5.3	0	6.8	0	7.5	16	12
TH-0.8-6.0-M3	254	80	17.5	5.3	0	6.8	0	7.5	16	12
TH-0.8-6.5-M3	254	80	17.5	5.3	0	7.8	0	7.5	16	12
TH-0.8-7.0-M3	254	80	17.5	5.3	0	7.8	0	7.5	16	12
TH-0.8-7.5-M3	254	80	17.5	5.3	0	8.8	0	7.5	16	12
TH-0.8-8.0-M3	254	80	17.5	5.3	0	8.8	0	7.5	16	12
TH-0.8-8.5-M3	254	80	17.5	5.3	0	9.8	0	7.5	16	12
TH-0.8-9.0-M3	254	80	17.5	5.3	0	9.8	0	7.5	16	12
TH-0.8-9.5-M3	254	80	17.5	5.3	0	10.8	0	7.5	16	12
TH-0.8-10-M3	254	80	17.5	5.3	0	10.8	0	7.5	16	12
TH-0.8-2.0-M4	178	80	17.5	7.3	0	3.0	0	7.5	16	12
TH-0.8-2.5-M4	178	80	17.5	7.3	0	4.0	0	7.5	16	12
TH-0.8-3.0-M4	178	80	17.5	7.3	0	4.0	0	7.5	16	12
TH-0.8-3.5-M4	178	80	17.5	7.3	0	5.0	0	7.5	16	12
TH-0.8-4.0-M4	178	80	17.5	7.3	0	5.0	0	7.5	16	12
TH-0.8-4.5-M4	254	80	17.5	7.3	0	6.0	0	7.5	16	12
TH-0.8-5.0-M4	254	80	17.5	7.3	0	6.0	0	7.5	16	12
TH-0.8-5.5-M4	254	80	25.5	7.3	0	7.0	0	11.5	24	16
TH-0.8-6.0-M4	254	80	25.5	7.3	0	7.0	0	11.5	24	16
TH-0.8-6.5-M4	254	80	25.5	7.3	0	8.0	0	11.5	24	16
TH-0.8-7.0-M4	254	80	25.5	7.3	0	8.0	0	11.5	24	16
TH-0.8-7.5-M4	254	80	25.5	7.3	0	9.0	0	11.5	24	16
TH-0.8-8.0-M4	254	80	25.5	7.3	0	9.0	0	11.5	24	16
TH-0.8-8.5-M4	254	80	25.5	7.3	0	10	0	11.5	24	16
TH-0.8-9.0-M4	254	80	25.5	7.3	0	10	0	11.5	24	16
TH-0.8-9.5-M4	254	80	25.5	7.3	0	11	0	11.5	24	16
TH-0.8-10-M4	254	80	25.5	7.3	0	11	0	11.5	24	16

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