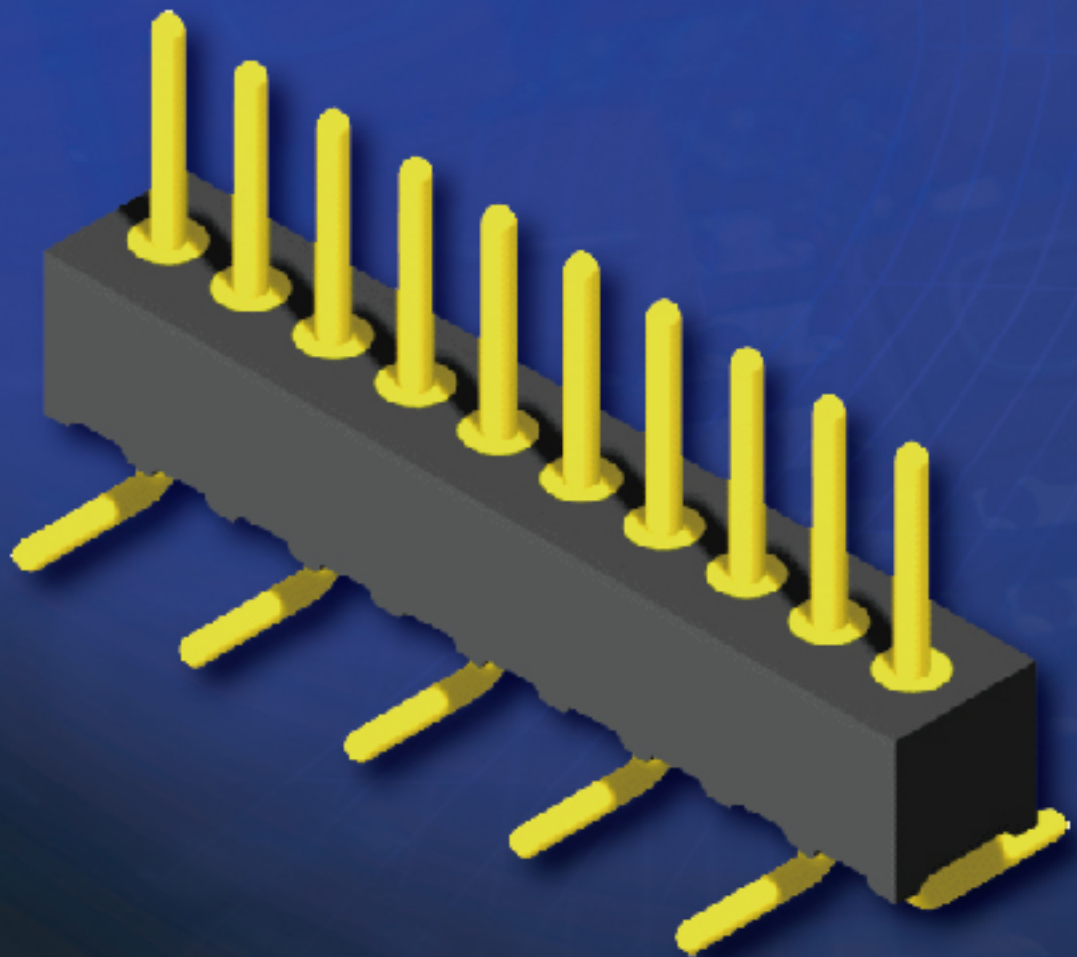


Machine Pin Header & Socket

7-17~7-23 • Machine Pin Header

7-24~7-35 • Machine Pin Socket



AMTEK Technology Co., Ltd

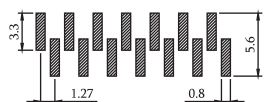
CONNECTORS MANUFACTURER



Machine Pin Header 1.27mm SMT Type H=1.9 / 2.2

Specifications

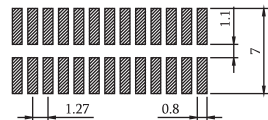
Current Rating: 1 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C



U: A Type



D: B Type



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

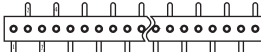
H	Plastic Height
1.9	1.9mm (For Dual Row Only)
2.2	2.2mm (For Single Row Only)

Material

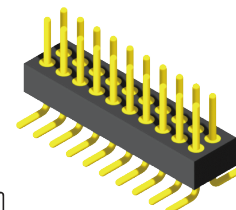
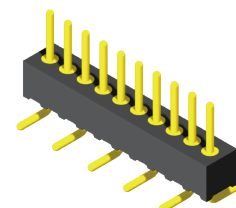
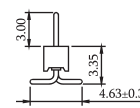
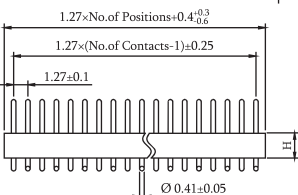
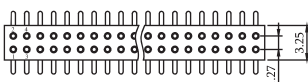
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



U: A Type



D: B Type



P/N.:5MH3U/D22N-1XXXXBXU-0000-01
 5MH3M19N-2XXXXBTU-0000-01

Machine Pin Header 1.27mm SMT R/A Type H=2.2

Specifications

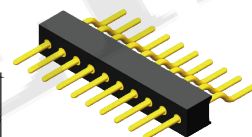
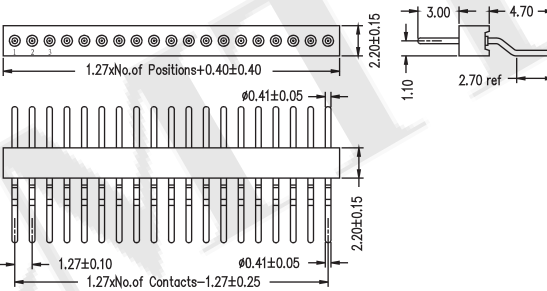
Current Rate: 1 AMP
 Insulation Resistance: ≥1000MΩ at V=100V.
 Contact Resistance: ≤10mΩ /Contact
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.:5MH3H22N-1XXXXBXU-0000-01

Machine Pin Header 1.778mm Vertical Type H=3.0

Specifications

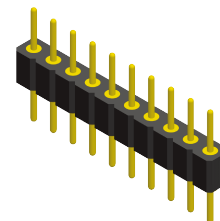
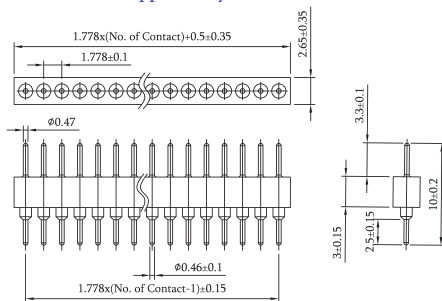
Current Rating: 3 AMP
 Insulation Resistance: ≥1000MΩ at V=100V.
 Contact Resistance: ≤30mΩ / Contact
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.:5MH7S30N-1XXXXBXU-1000-01

ORDER INFORMATION

5	M	H	X	X	X	X	N	-	X	X	X	X	B	X	U	-	XXXX	-	0	1	
3:Pitch 1.27x1.27 7:Pitch 1.778mm				Plastic Height 19:H=1.9mm 22:H=2.2mm 30:H=3.0mm				1:Single Row 2:Dual Row		No. of Contacts Per Row (02~50) For 1.27x1.27mm Only (02~32) For 1.778mm Only		G0:Gold Flash GA:Au 5u" GB:Au 10u" GF:Au 15u" GC:Au 20u" GD:Au 30u"		B:Black Insulator		U: RoHS + Hi-Temp		Only for DIP type 0000=Other type 1000=10.0mm			
U:SMT A type D:SMT B type For SMT Single Row Only M:SMT For SMT Dual Row Only H:SMT R/A S:Vertical				N:Non Type																	

©:Standard Recommended

Old P/N:MH3M-1/2
 MH3MR-1
 MH7S-1

Machine Pin Header & Socket

ROHS

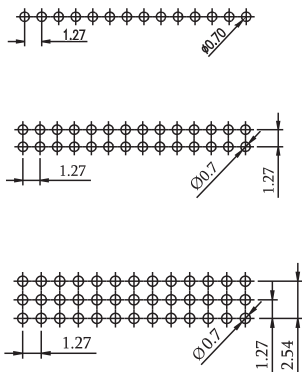
Machine Pin Header 1.27mm R/A Type H=1.9 / 2.2

Specifications

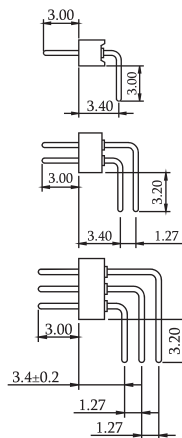
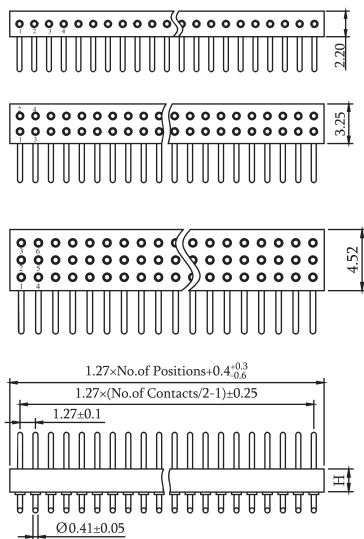
Current Rating: 1 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C
 Life: 500 Cycles Min.

Material

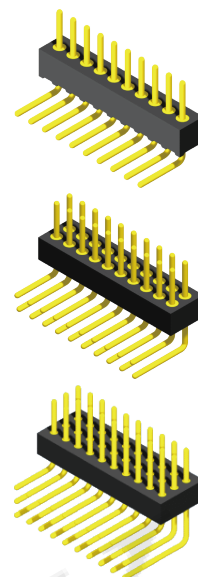
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



H	Plastic Height
1.9	1.9mm (For 2 & 3 Row Only)
2.2	2.2mm (For 1 Row Only)



P/N.: 5MH3R22N-1XXXXBXU-0000-01
 5MH3R19N-2/3XXXXBXU-0000-01

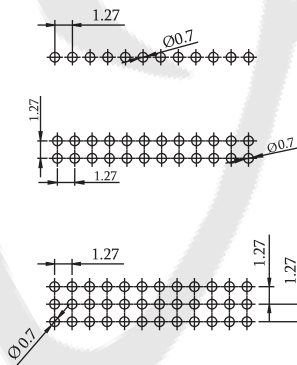
Machine Pin Header 1.27mm Vertical Type H=1.9 / 2.2

Specifications

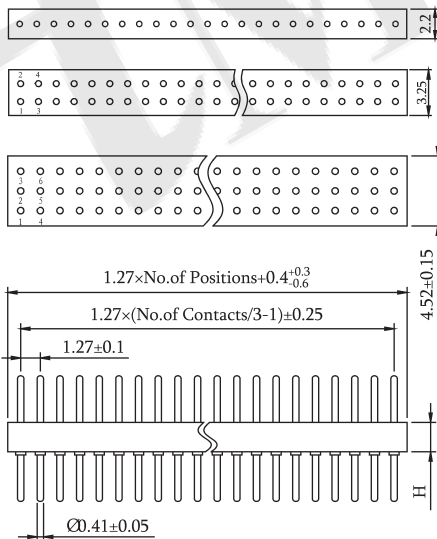
Current Rate: 1 AMP
 Insulation Resistance: ≥1000MΩ at V=100V.
 Contact Resistance: ≤10mΩ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

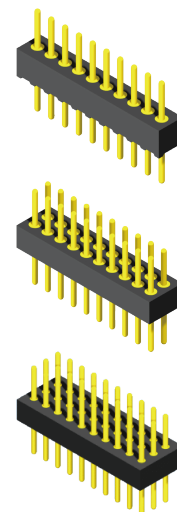
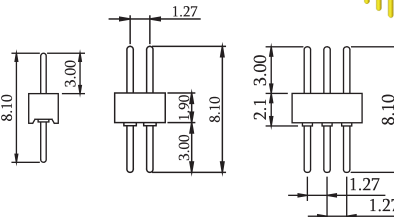
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

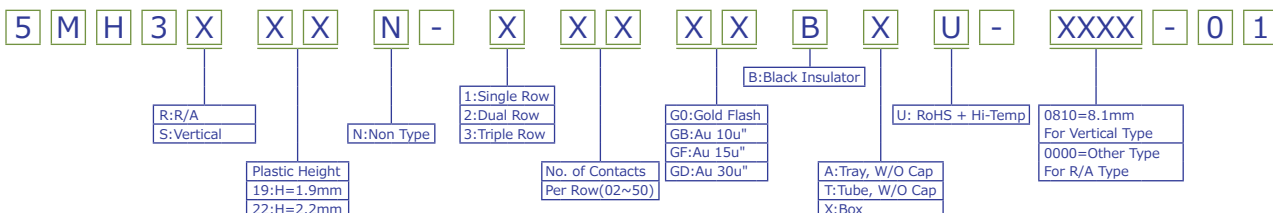


H	Plastic Height
1.9	1.9mm (For 2 & 3 Row Only)
2.2	2.2mm (For 1 Row Only)



P/N.: 5MH3S22N-1XXXXBXU-0810-01
 5MH3S19N-2/3XXXXBXU-0810-01

ORDER INFORMATION



©: Standard Recommended

Old P/N: MH3R-1/2/3
 MH3S-1/2/3



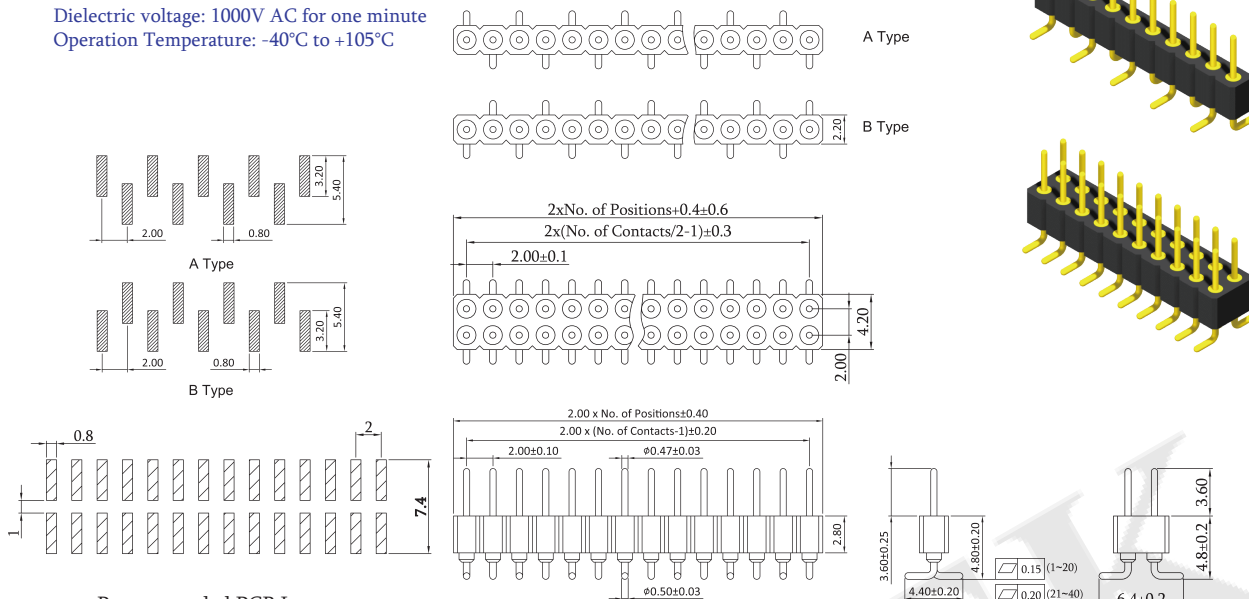
Machine Pin Header 2.0mm SMT Type H=2.8

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

P/N.: 5MH2U/D28N-1XXXXBTU-0000-01
 5MH2M28N-2XXXXBTU-0000-01

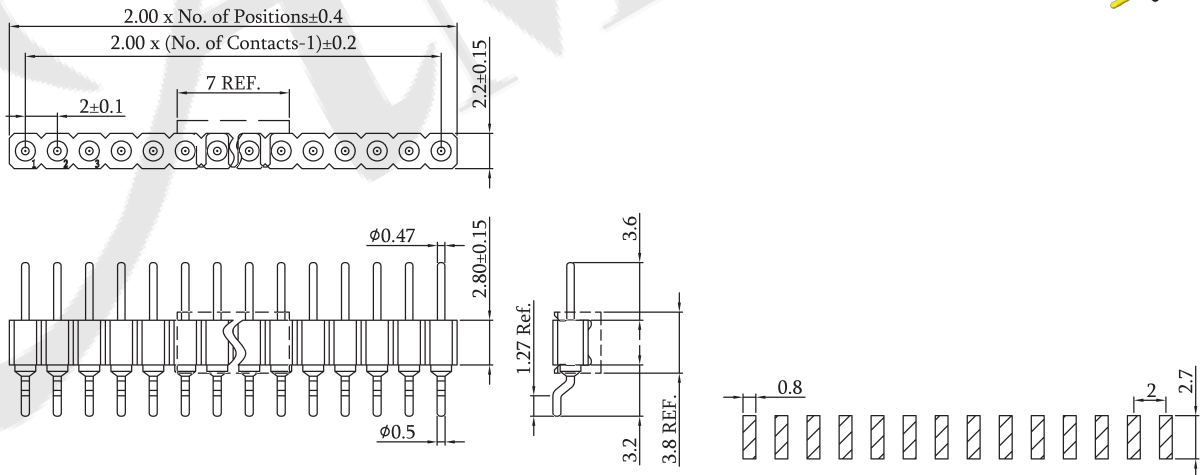
Machine Pin Header 2.0mm SMT R/A Type H=2.8

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

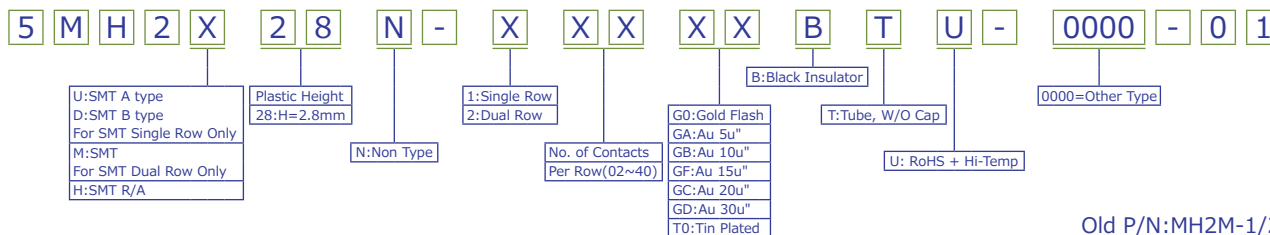
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

P/N.: 5MH2H28N-1XXG0BXU-0000-01

ORDER INFORMATION



◎: Standard Recommended

Old P/N: MH2M-1/2
 MH2MR-1

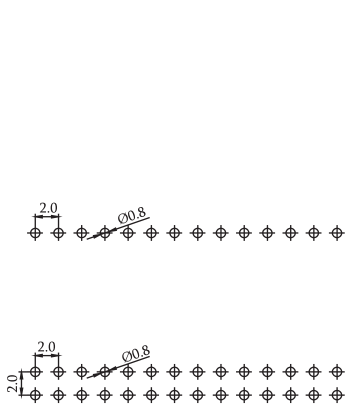
Machine Pin Header 2.0mm R/A H=2.8

Specifications

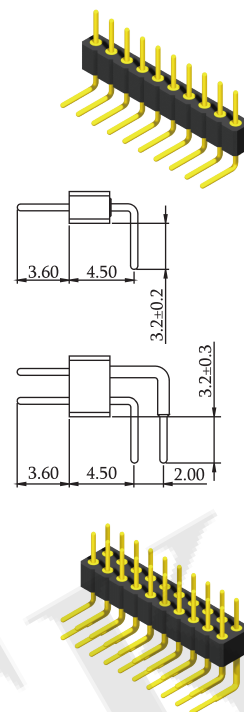
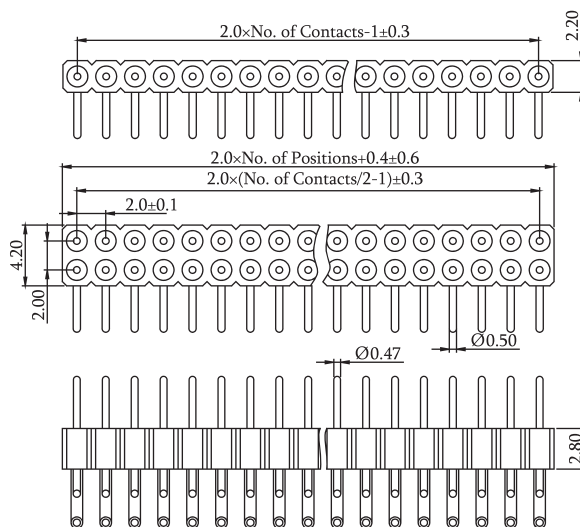
Current Rating: 3 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



P/N.: 5MH2R28N-1/2XXXXBXU-0000-01

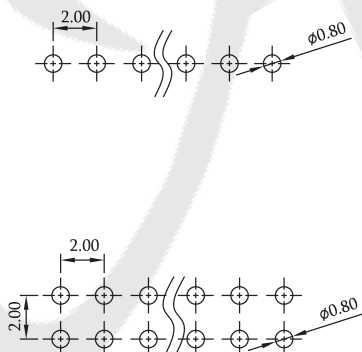
Machine Pin Header 2.0mm Vertical Type H=2.8

Specifications

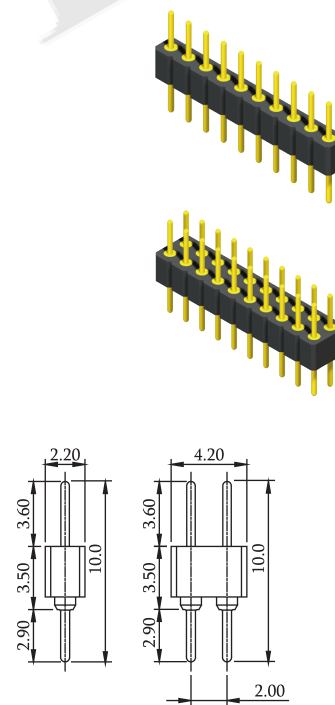
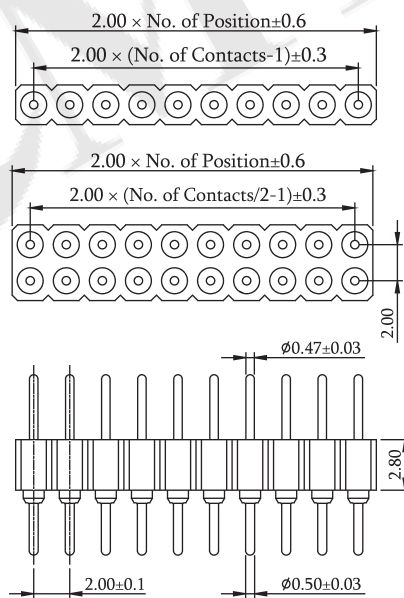
Current Rate: 3 AMP
 Insulation Resistance: ≥1000MΩ at V=100V.
 Contact Resistance: ≤10mΩ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

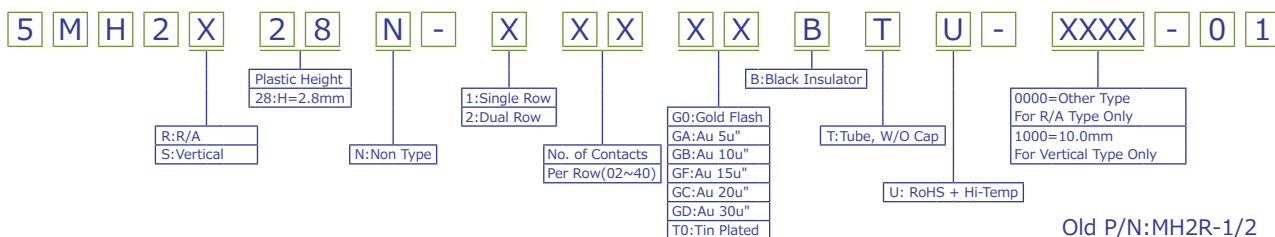


Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



P/N.: 5MH2S28N-1/2XXXXBTU-1000-01

ORDER INFORMATION



©: Standard Recommended

Old P/N: MH2R-1/2
 MH2S-1/2



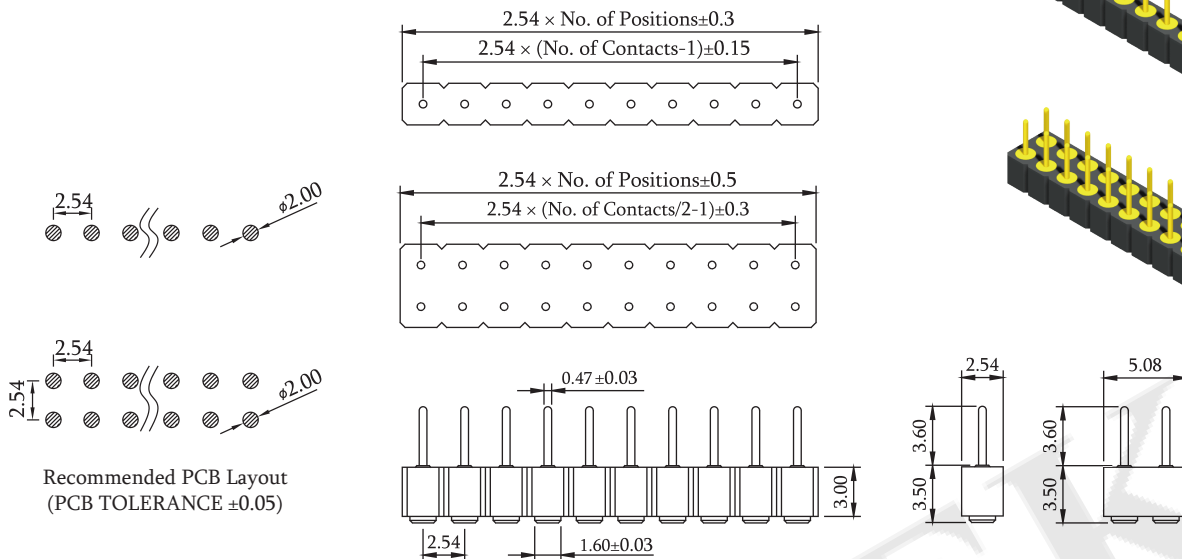
Machine Pin Header 2.54mm SMT Dot Type H=3.0

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.: 5MH1Q30N-1/2XXXXBXU-0000-01

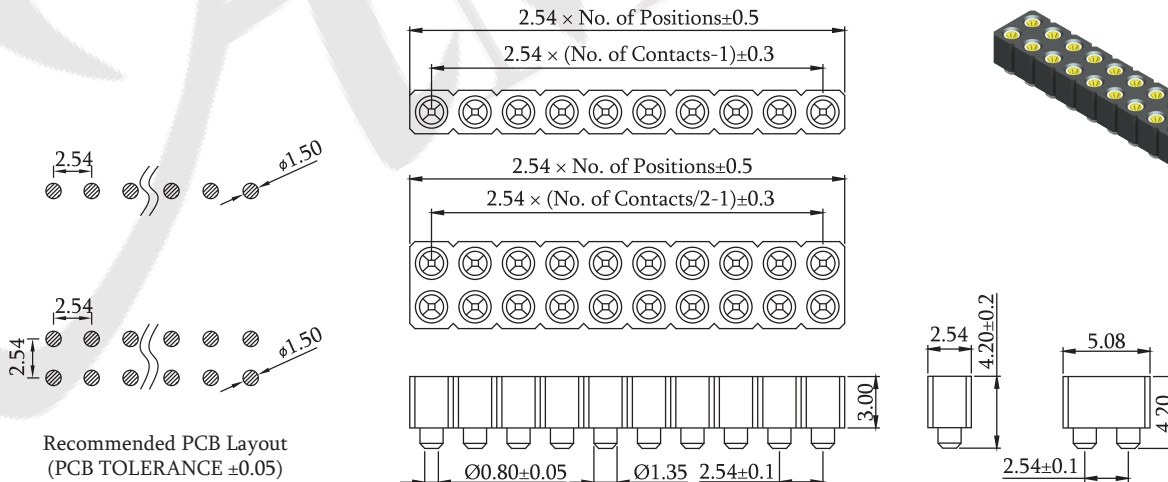
Machine Pin Socket 2.54mm SMT Dot Type H=3.0

Specifications

Current Rating: 3 AMP
 Contact Resistance: 10m Ω Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.: 5MS1Q30N-1/2XXXXBXU-0000-01

ORDER INFORMATION

5	M	X	1	Q	3	0	N	-	X	X	X	X	B	X	U	-	0000	-	0	1
H: Header S: Socket		Plastic Height 30: H=3.0mm		N: Non Type		1: Single Row 2: Dual Row		B: Black		A: Tray, W/O Cap T: Tube, W/O Cap X: Box		0000=Other Type		U: RoHS + Hi-Temp						
No. of Contacts Per Row (02~40) For Header 1: Single Row (02~50) For Header 2: Dual Row Socket 1: Single Row, 2: Dual Row				G0: Gold Flash GA: Au 5u" GB: Au 10u" GF: Au 15u" GC: Au 20u" GD: Au 30u"				S0: Selective Au SB: Selective Au 10u" SF: Selective Au 15u" SD: Selective Au 30u" T0: Tin Plated												

©: Standard Recommended

Old P/N: MH1M-1/2
MS1M-1/2

Machine Pin Header & Socket

ROHS

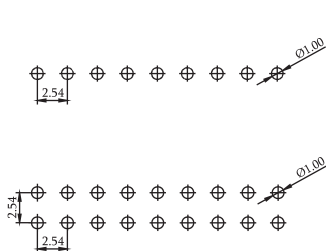
Machine Pin Header 2.54mm R/A Type H=3.0

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

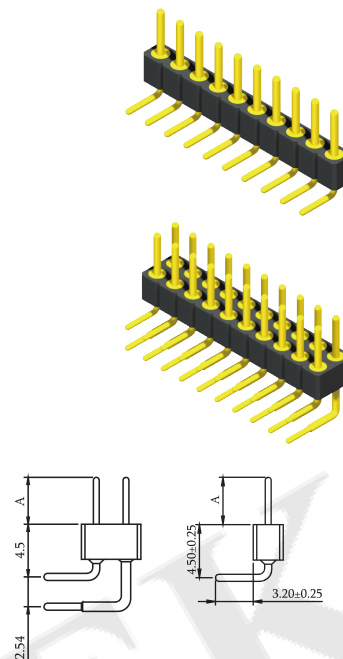
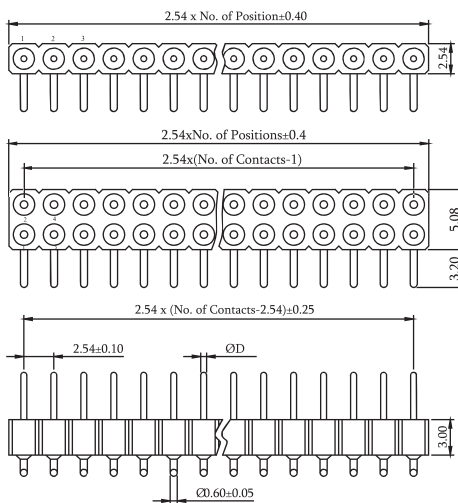
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

Code	Dim. A	Dim. D
0400	4.00	0.50
0500	5.00	0.76



P/N.: 5MH1R30N-1/2XXXXBXU-XXXX-01

Machine Pin Header 2.54mm Vertical Type H=1.9

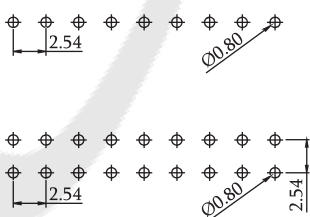
Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

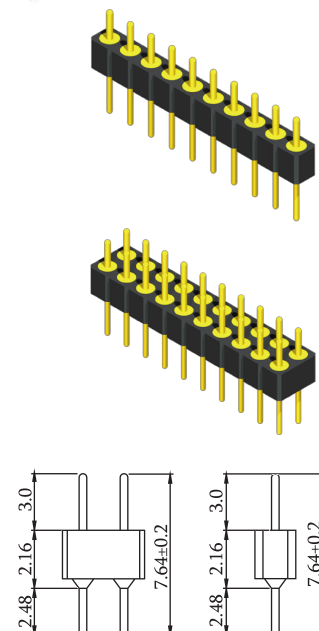
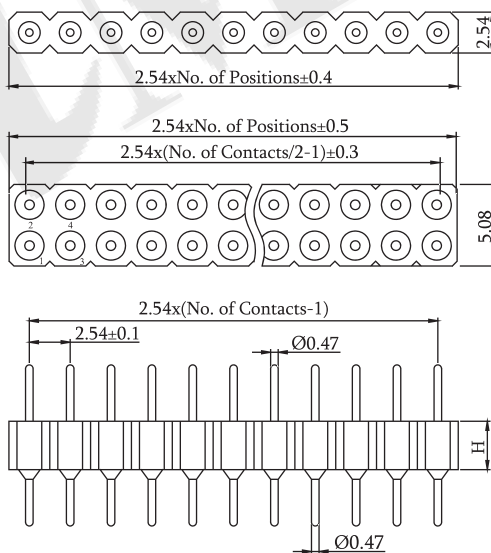
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

Code	Dim. H
0764	1.90



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.: 5MH1S19N-1/2XXXXBXU-0764-01

ORDER INFORMATION

5	M	H	1	X	X	X	N	-	X	X	X	X	X	B	X	U	-	XXXX	-	0	1
R: R/A S: Vertical		Plastic Height 30:H=3.0mm 19:H=1.9mm		N: Non Type		1: Single Row 2: Dual Row		No. of Contacts Per Row (01~40) For H=3.0mm, 1: Single Row (02~50) For H=3.0mm, 2: Dual Row H=1.9mm, 1: Single Row, 2: Dual Row		G0: Gold Flash GA: Au 5u" GB: Au 10u" GF: Au 15u" GC: Au 20u" GD: Au 30u"		B: Black Insulator		A: Tray, W/O Cap T: Tube, W/O Cap X: Box		U: RoHS + Hi-Temp		For R/A 0400=4.00mm 0500=5.00mm For Vertical 0764=7.64mm (List as above table)		Old P/N: MH1R-1/2 MH1S19-1/2-764	

© : Standard Recommended



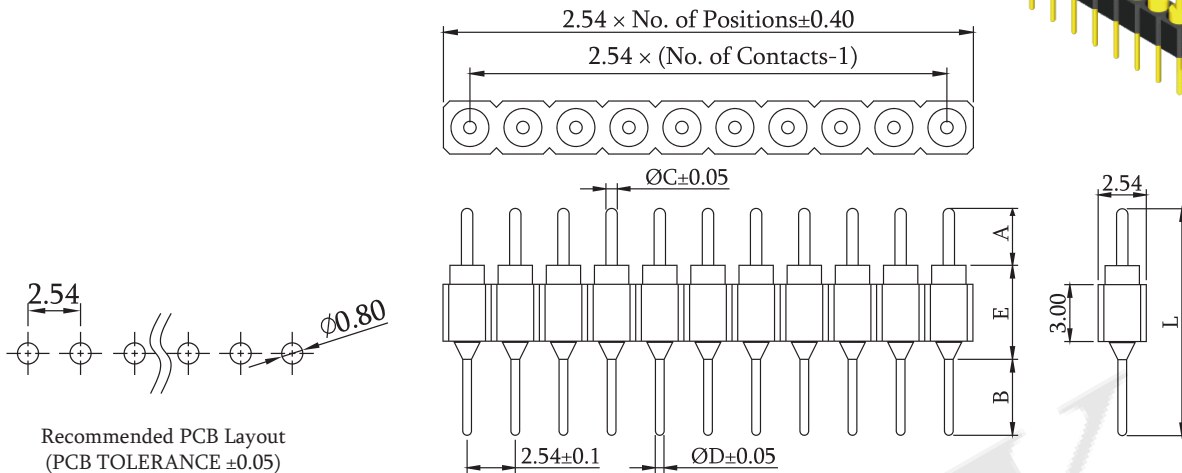
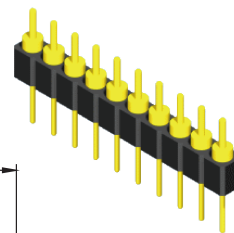
Machine Pin Header 2.54mm Vertical Type H=3.0

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

Part No.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. L
5MH1S30N-1XX-100B-01	3.50	2.90	0.47	0.47	3.60	10.00
5MH1S30N-1XX-1120-01	5.00	3.20	0.76	0.60	3.00	11.20
5MH1S30N-1XX-1196-02	3.00	4.00	0.60	0.46	4.96	11.96
5MH1S30N-1XX-1220-01	4.30	3.80	0.64	0.49	4.10	12.20

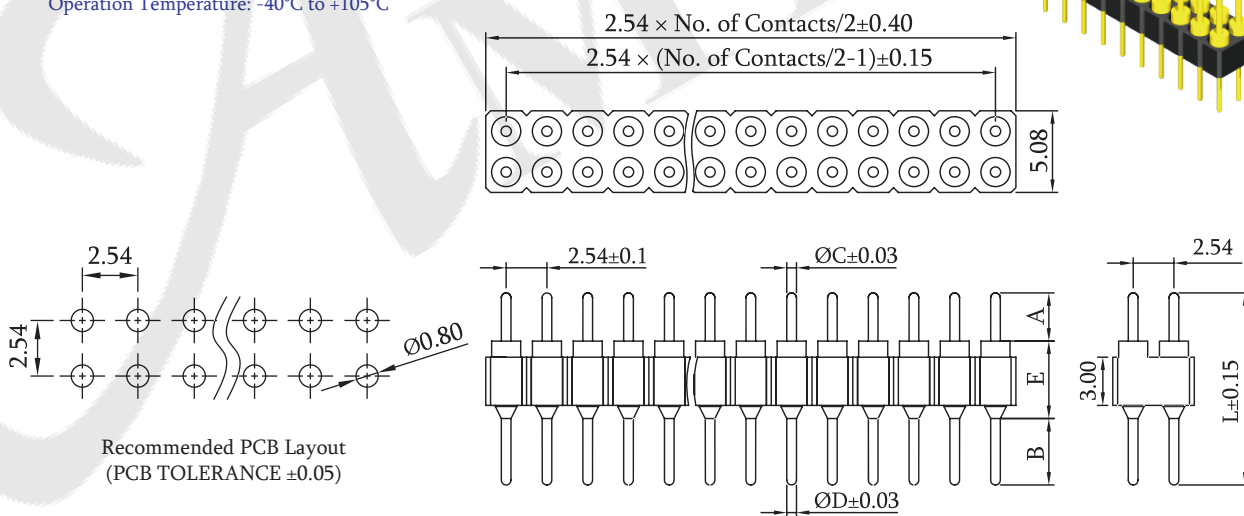
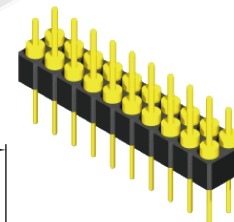
P/N.: 5MH1S30N-1XXXXBXU-100B-01
5MH1S30N-1XXXXBXU-1120-01
5MH1S30N-1XXXXBXU-1196-02
5MH1S30N-1XXXXBXU-1220-01

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

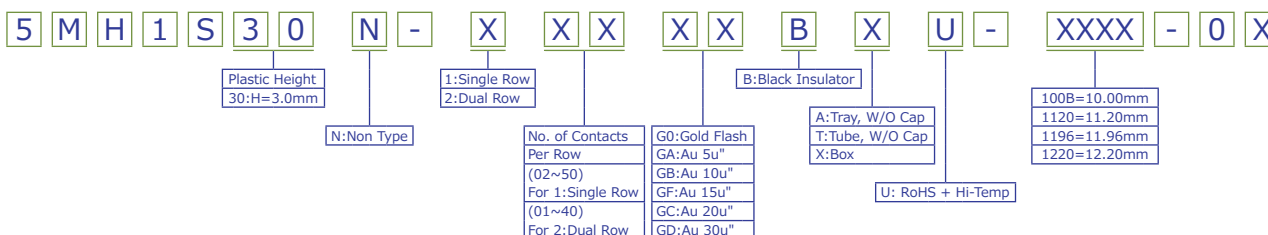


Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

Part No.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. L
5MH1S30N-2XX-100B-01	3.50	2.90	0.47	0.47	3.60	10.00
5MH1S30N-2XX-1196-01	3.00	4.13	0.60	0.46	4.83	11.96
5MH1S30N-2XX-1215-01	3.00	3.95	0.64	0.50	5.20	12.15
5MH1S30N-2XX-1220-01	4.30	3.80	0.60	0.50	4.10	12.20

P/N.: 5MH1S30N-2XXXXBTU-1196-01

ORDER INFORMATION



©: Standard Recommended

Old P/N: MH1S30-1/2-XXX

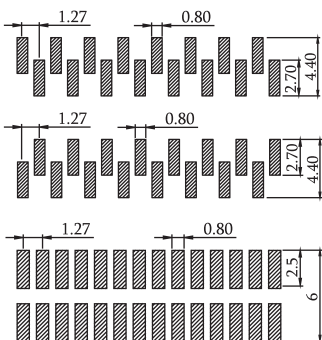
Machine Pin Socket 1.27mm SMT Type H=3.8 / 4.1

Specifications

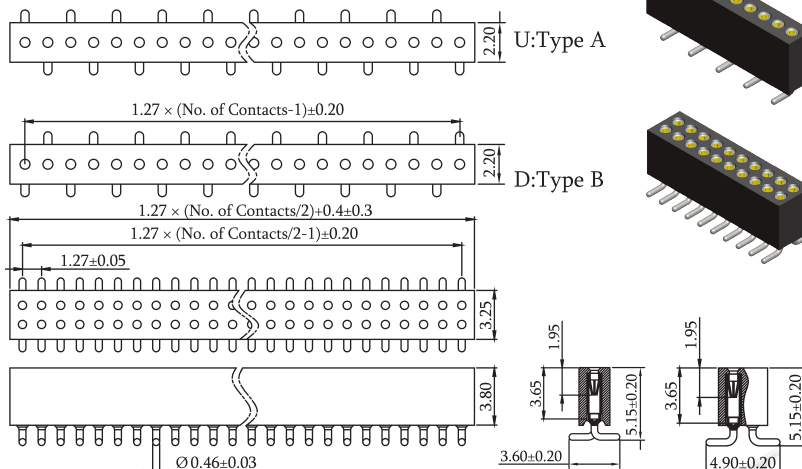
Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000\text{M}\Omega$ at $V=100\text{V}$.
 Contact Resistance: $\leq 10\text{m}\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to $+105^\circ\text{C}$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

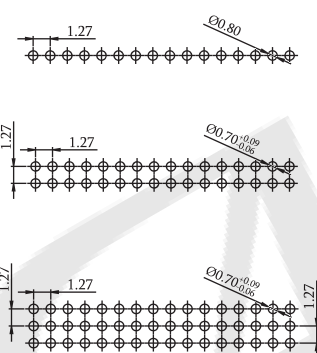


Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

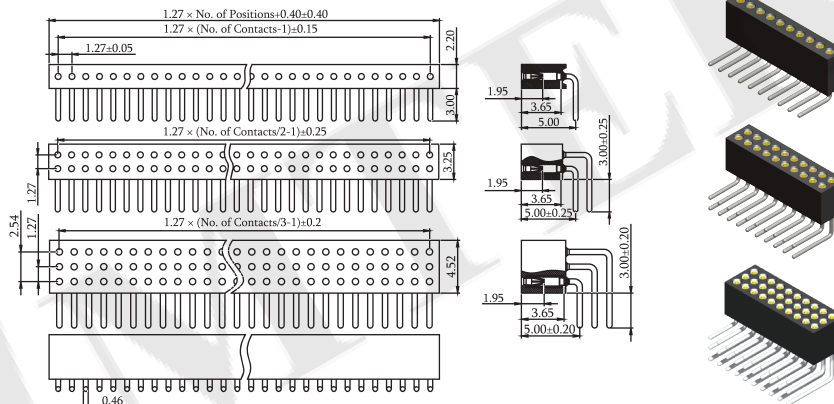


P/N.: 5MS3M/U/D38/41N-1/2XXXXBXU-0000-01

Machine Pin Socket 1.27mm R/A Type H=3.8 / 4.1

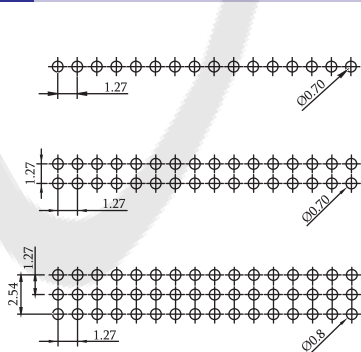


Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

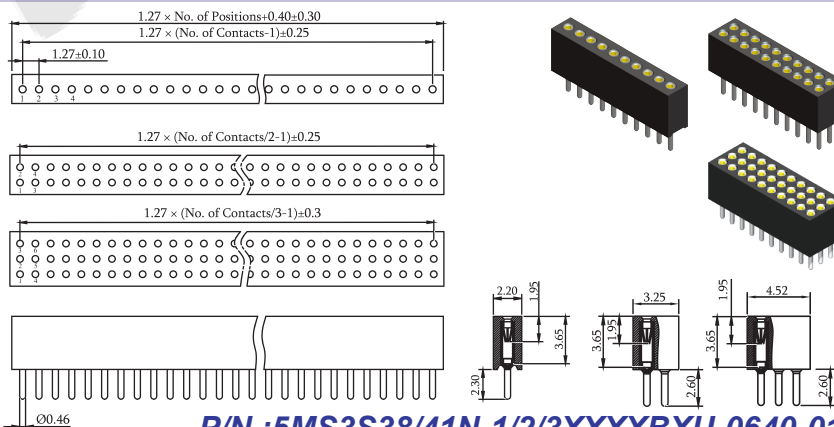


P/N.: 5MS3R38/41N-1/2/3XXXXBTU-0000-01

Machine Pin Socket 1.27mm Vertical Type H=3.8 / 4.1



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.: 5MS3S38/41N-1/2/3XXXXBXU-0640-01

ORDER INFORMATION

5 M S 3 X X X N - X X X X B X U - XXXX - 0 1

U: SMT A type
 D: SMT B type
 For SMT Single Row Only
 M: SMT
 For SMT Dual Row Only
 R: R/A
 S: Vertical

Plastic Height
 38: H=3.8mm
 41: H=4.1mm
 For Single Row Only

N: Non Type

No. of Contacts
 Per Row (02~50)
 1: Single Row
 2: Dual Row
 3: Triple Row

G0: Gold Flash
 S0: Selective Au
 SB: Selective Au 10u"
 SF: Selective Au 15u"
 SD: Selective Au 30u"
 T0: Tin Plated
 Remark
 Finger: Gold Plated
 Sleeve: Tin Plated

B: Black Insulator

A: Tray, W/O Cap
 T: Tube, W/O Cap
 H: Tape & Reel

U: RoHS + Hi-Temp

0000=Other Type
 For R/A Type Only
 0640=6.40mm
 For Vertical Type Only



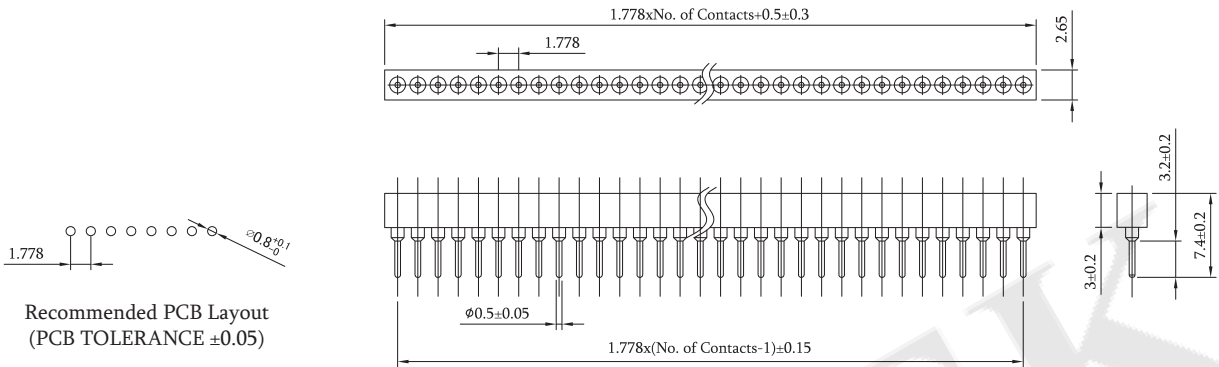
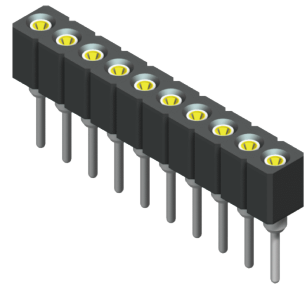
Machine Pin Socket 1.778mm Vertical Type H=3.0

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact: Copper Alloy



P/N.:5MS7S30N-1XXXXBXU-0740-01

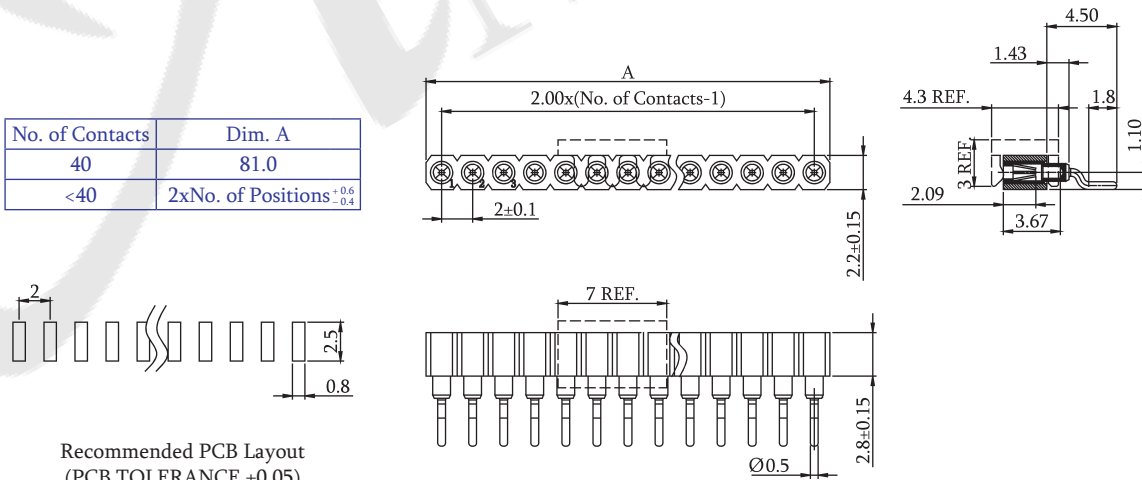
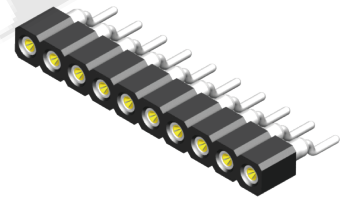
Machine Pin Socket 2.0mm SMT R/A Type H=2.8

Specifications

Current Rate: 3 AMP
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

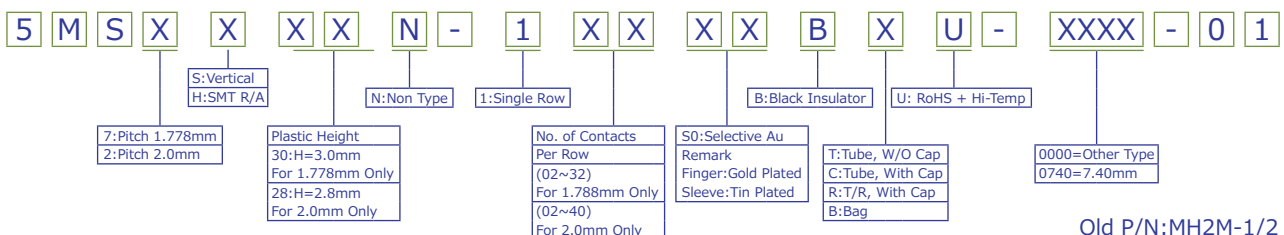
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.:5MS2H28N-1XXS0BXU-0000-01

ORDER INFORMATION



©: Standard Recommended

Old P/N: MH2M-1/2
MH2MR-1

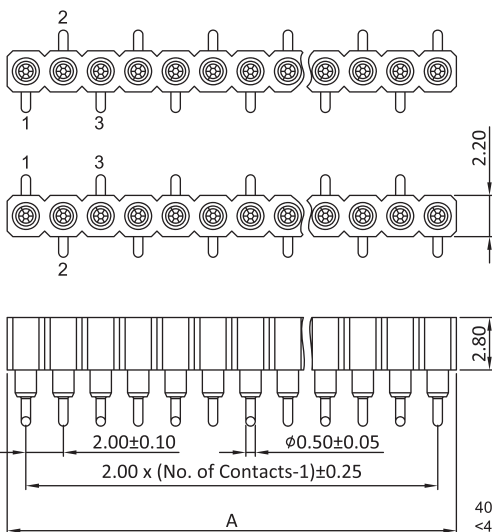
Machine Pin Socket 2.0mm SMT Type H=2.8

Specifications

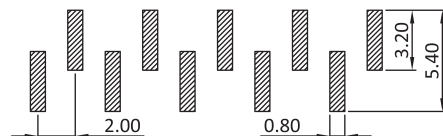
Current Rate: 3 AMP
 Contact Resistance: $\leq 10\text{m}\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Mechanical Life: Min. 500 cycles
 Mating Pin: $\varnothing 0.40$ to $\varnothing 0.66\text{mm}$ or 0.50SQ
 Forces: (Polished steel gauge $\varnothing 0.47$ mm)
 Insertion: 200g per pin Max. Withdrawal: 60g per pin Min.
 Operation Temperature: -40°C to $+105^\circ\text{C}$

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



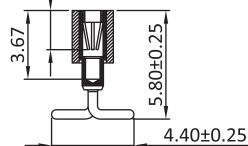
B Type



A Type



B Type



A Type

Recommended PCB Layout
(PCB TOLERANCE ± 0.05)

40 Pin: $A = 2.0 \times \text{No. of Positions} + 1.0 \pm 0.40$
 < 40 Pin: $A = 2.0 \times \text{No. of Positions} - 0.4$

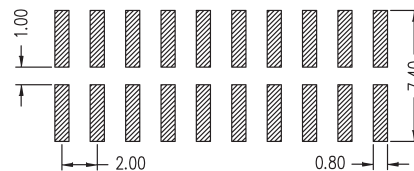
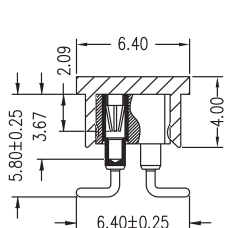
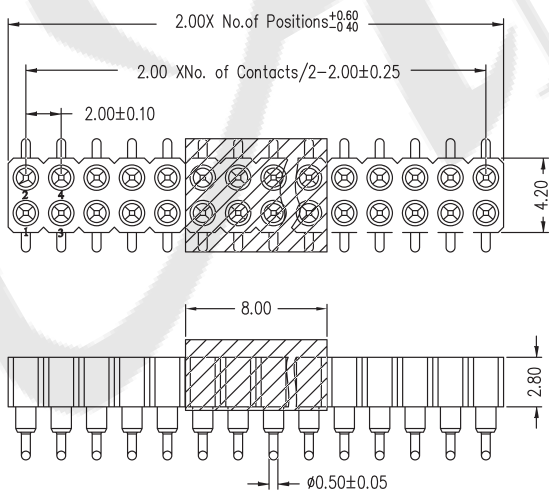
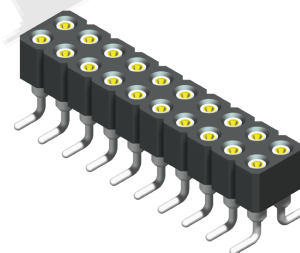
P/N.: 5MS2U/D28N-1XXXXBXU-0000-01

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000\text{M}\Omega$ at $V=100\text{V}$.
 Contact Resistance: $\leq 10\text{m}\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to $+105^\circ\text{C}$

Material

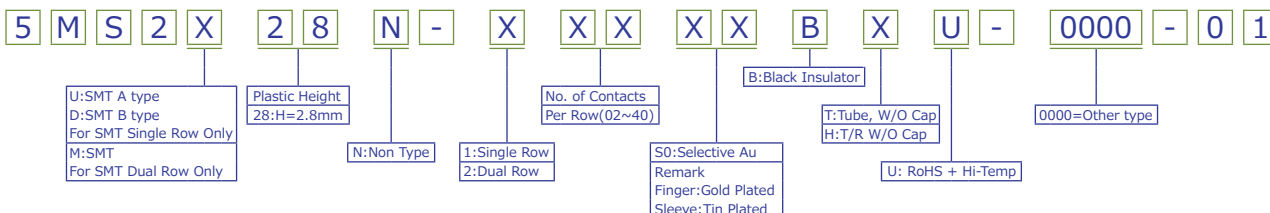
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout (Top Side)
(PCB BOARD TOLERANCE ± 0.05)

P/N.: 5MS2M28N-2XXS0BXU-0000-01

ORDER INFORMATION



CONNECTORS MANUFACTURER



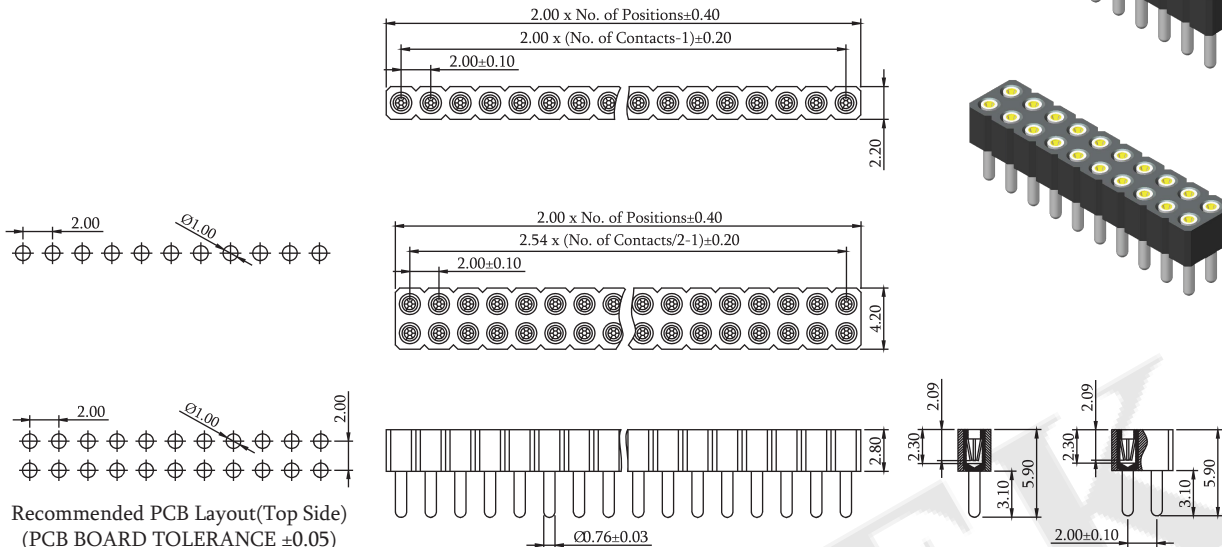
Machine Pin Socket 2.0mm Vertical Type H=2.8 L=5.9

Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at V=100V.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.: 5MS2S28N-1/2XXXXBTU-0590-01

Machine Pin Socket 2.0mm Vertical Type H=2.8 L=7.4

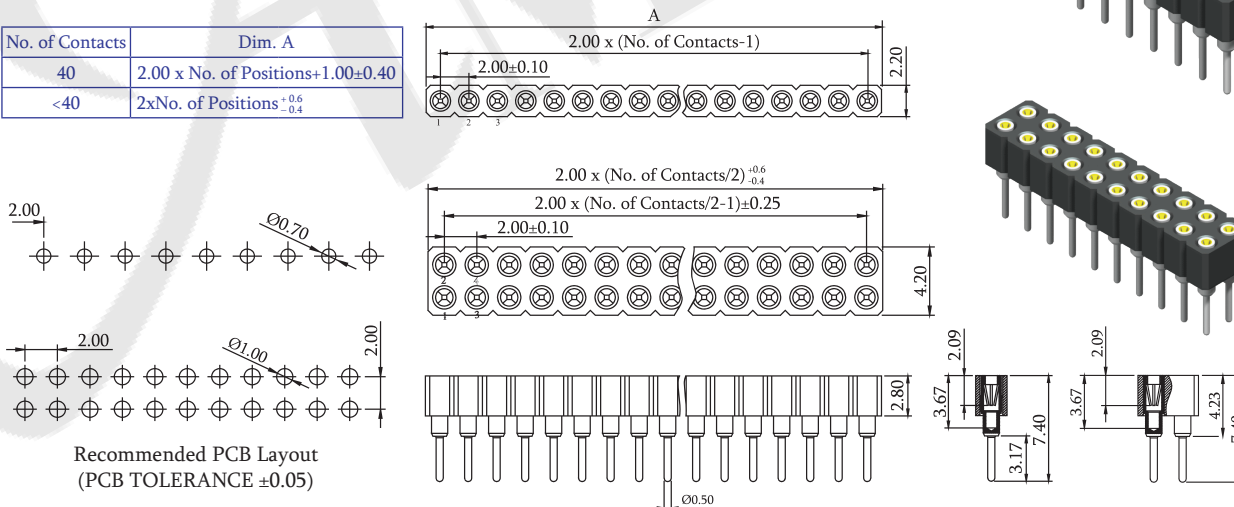
Specifications

Current Rate: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at V=100V.
 Contact Resistance: $\leq 10m\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

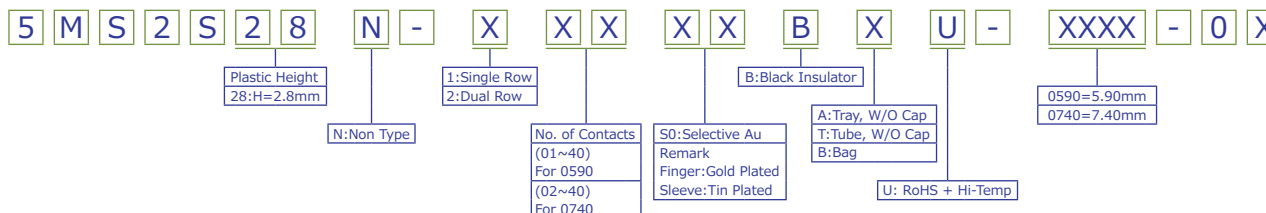
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

No. of Contacts	Dim. A
40	2.00 x No. of Positions + 1.00 ± 0.40
<40	2 x No. of Positions $^{+0.6}_{-0.4}$



P/N.: 5MS2S28N-1XXXXBXU-0740-01
 5MS2S28N-2XXS0BXU-0740-01

ORDER INFORMATION



©: Standard Recommended

Old P/N: MS2S-1/2-590
 MS2S-1/2

Machine Pin Header & Socket

ROHS

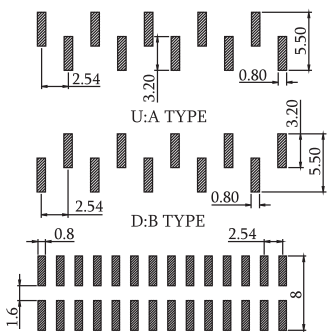
Machine Pin Header 2.54mm SMT Type H=3.0

Specifications

Current Rating: 3 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

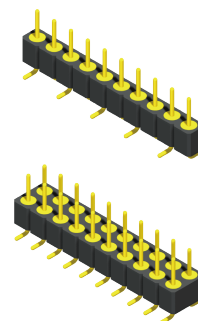
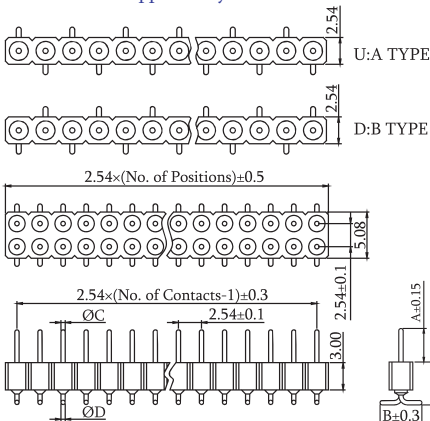
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

Row	Serial Number	Dim. A	Dim. B	Dim. C	Dim. D
1	01	3.60	4.50	0.47	0.47
1	02	5.00	4.20	0.76	0.60
2	01	3.60	6.94	0.47	0.47
2	02	5.00	6.94	0.76	0.60



P/N.: 5MH1X30N-1XXXXBTU-0000-01
 5MH1X30N-1XXXXBTU-0000-02
 5MH1M30N-2XXXXBXU-0000-01
 5MH1M30N-2XXXXBTU-0000-02

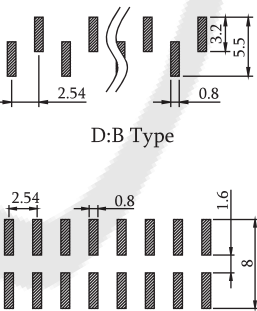
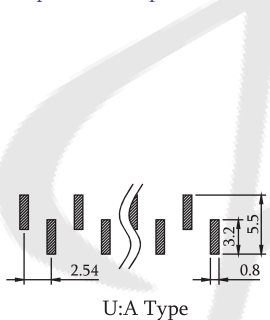
Machine Pin Socket 2.54mm SMT Type H=3.0 / 7.0

Specifications

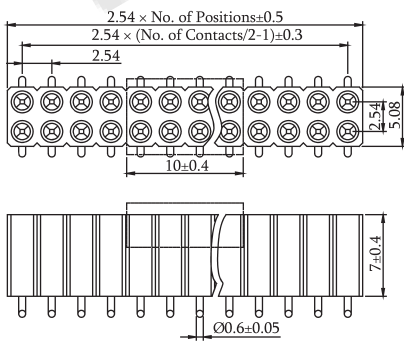
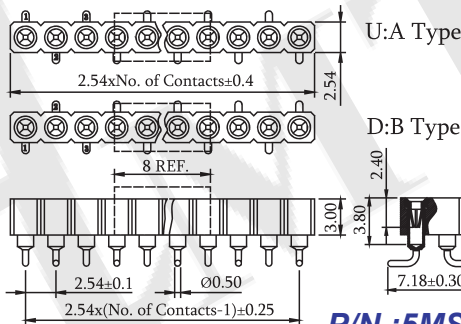
Current Rating: 3 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

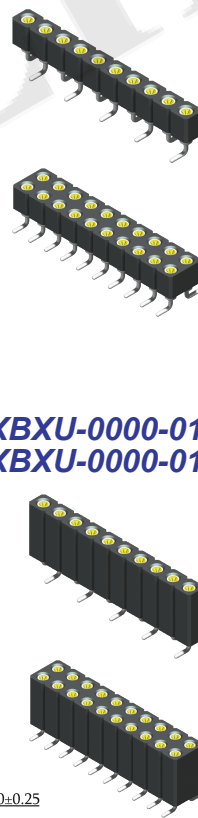


Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



P/N.: 5MS1U/D30N-1XXXXBXU-0000-01
 5MS1M30N-2XXXXBXU-0000-01

P/N.: 5MS1U/D70N-1XXXXBXU-0000-01
 5MS1M70N-2XXXXBXU-0000-01



ORDER INFORMATION

5 M X 1 X X X N - X X X X B X U - 0000 - 0 1

H: Header S: Socket	N: Non Type	1: Single Row 2: Dual Row	B: Black Insulator	U: RoHS + Hi-Temp	0000=Other Type For R/A Type Only
U: SMT A type D: SMT B type For SMT Single Row Only M: SMT For SMT Dual Row Only	Plastic Height 30:H=3.0mm 70:H=7.0mm	No. of Contacts Per Row (01~40) For Socket, H=7.0, Row:1 (02~40) For Header, Row:1, Serial No.01 Socket, H=3.0, Row:2 (02~50) For Header, Row:1, Serial No.02 Header, Row:2, Serial No.01/02 Socket, H=3.0, Row:2 /H=7.0, Row:1	G0: Gold Flash GA: Au 5u" GB: Au 10u" GF: Au 15u" GC: Au 20u" GD: Au 30u" T0: Tin Plated	S0: Selective Au SB: Selective Au 10u" SF: Selective Au 15u" SD: Selective Au 30u" Remark- Finger: Gold Plated Sleeve: Tin Plated	T: Tube, W/O Cap A: Tray, W/O Cap H: T/R W/O Cap R: T/R, With Cap X: Box

© : Standard Recommended

Old P/N: MH1M30-1/2
 MS1M30-1/2
 MS1M70-1/2



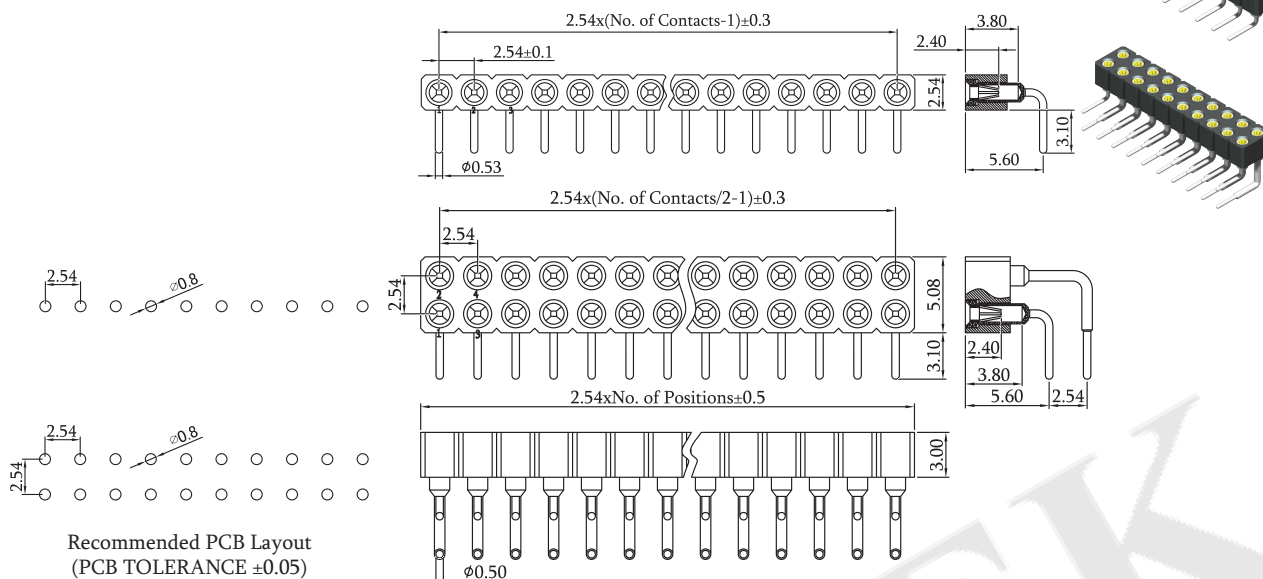
Machine Pin Socket 2.54mm R/A Type H=3.0

Specifications

Current Rating: 3 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.:5MS1R30N-1/2XXXXBXU-0000-01

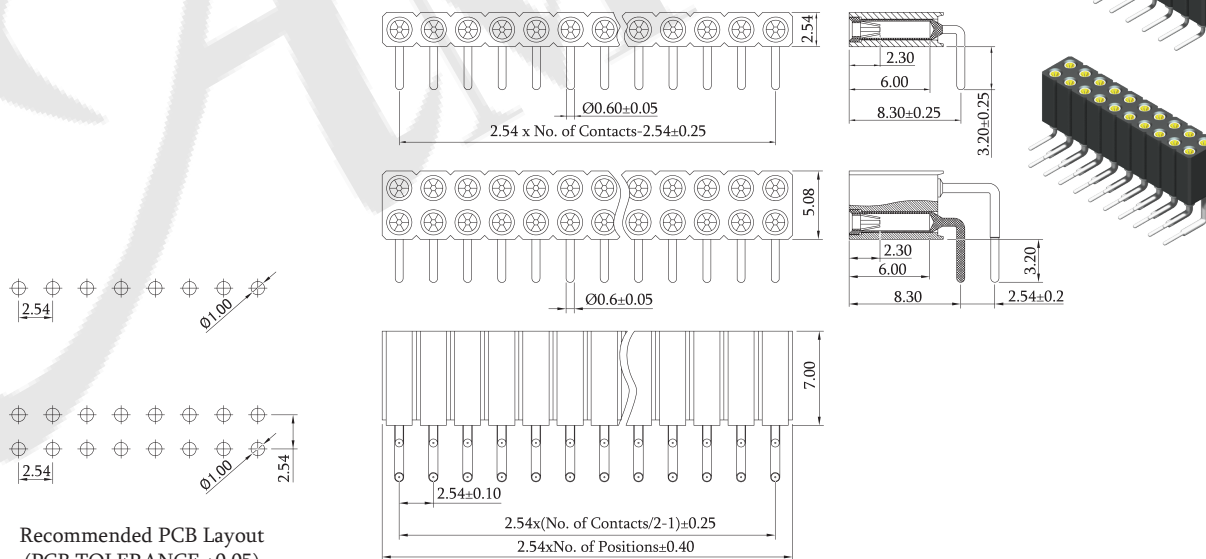
Machine Pin Socket 2.54mm R/A Type H=7.0

Specifications

Current Rate: 3 AMP
 Insulation Resistance: ≥1000MΩ at V=100V.
 Contact Resistance: ≤10mΩ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

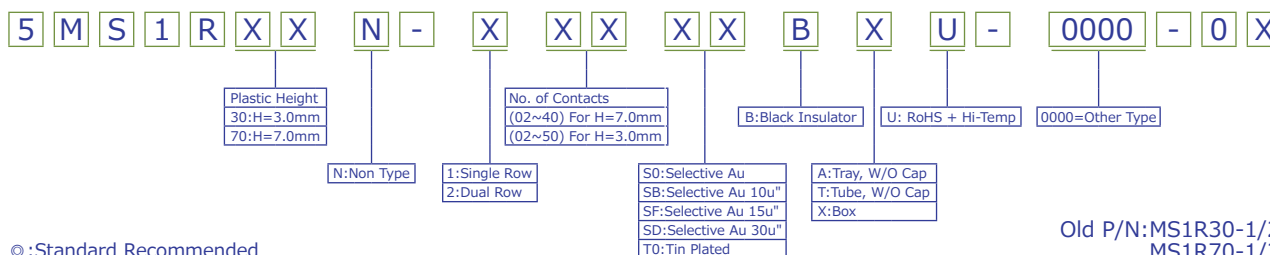
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



P/N.:5MS1R70N-1/2XXXXBXU-0000-01

ORDER INFORMATION



◎:Standard Recommended

Old P/N:MS1R30-1/2
MS1R70-1/2

M Machine Pin Header & Socket

ROHS

Machine Pin Socket 2.54mm Vertical Type H=1.9 / 3.0 / 4.2 / 7.0

Specifications

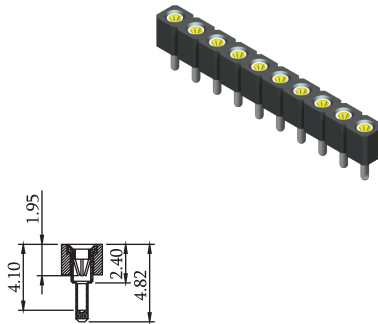
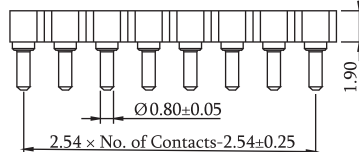
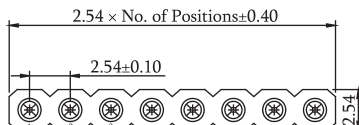
Current Rating: 3 AMP
 Insulation Resistance: $\geq 1000M\Omega$ at 100VAC
 Contact Resistance: $\leq 10m\Omega$ / contact
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

Material

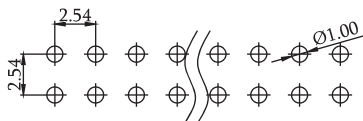
Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



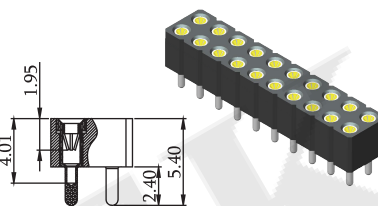
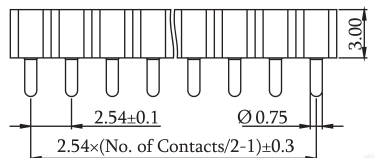
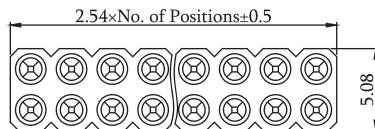
Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.:5MS1S19N-1XXXXBTU-0482-01



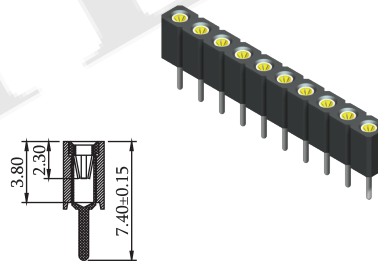
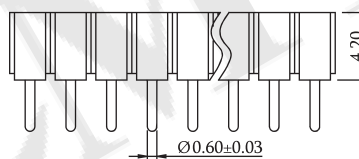
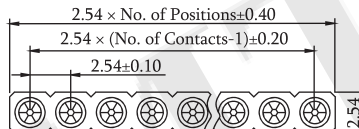
Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.:5MS1S30N-1XXXXBXU-0540-01
 5MS1S30N-2XXS0BXU-0540-01



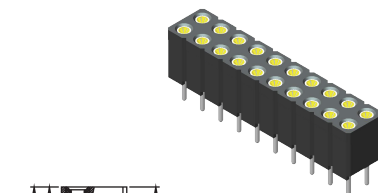
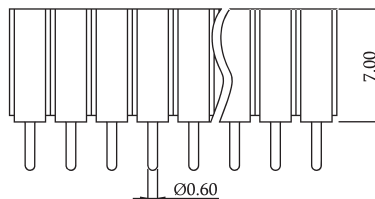
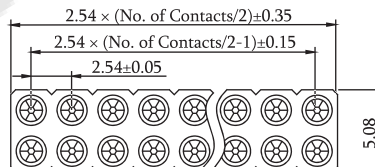
Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.:5MS1S42N-1XXXXBXU-0740-01



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.:5MS1S70N-1/2XXS0BTU-1000-01

ORDER INFORMATION

5 M S 1 S X X N - X X X X B X U - XXXX - 0 1

N: Non Type
 Plastic Height
 19:H=1.9mm
 30:H=3.0mm
 42:H=4.2mm
 70:H=7.0mm

1: Single Row
 2: Dual Row
 No. of Contacts
 Per Row
 (01~40)
 For H=1.9mm / H=3.0mm, Row:1
 (02~40) For H=4.2mm/H=7.0mm
 (02~50) For H=3.0mm, Row:2

G0: Gold Flash
 S0: Selective Au
 SB: Selective Au 10u"
 SF: Selective Au 15u"
 SD: Selective Au 30u"
 T0: Tin Plated
 Remark
 Finger: Gold Plated
 Sleeve: Tin Plated

B: Black Insulator
 T: Tube, W/O Cap
 A: Tray, W/O Cap
 X: Box
 B: Bag

U: RoHS + Hi-Temp

Tail Length (Dim.L)
 0482=4.82mm
 0540=5.40mm
 0740=7.40mm
 1000=10.00mm

Old P/N: MS1S19-1-482
 MS1S30-1/2-540
 MS1S42-1
 MS1S70-1/2-1000

© : Standard Recommended



Machine Pin Socket 2.54mm Vertical Type H=3.0

Specifications

Current Rate: 3 AMP
 Contact Resistance: $\leq 10\text{m}\Omega$ / Contact
 Dielectric voltage: 1000V AC for one minute
 Operation Temperature: -40°C to $+105^\circ\text{C}$

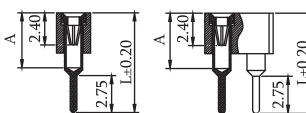
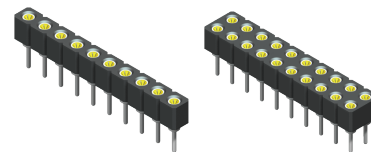
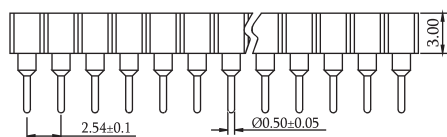
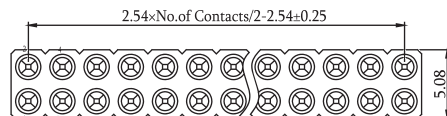
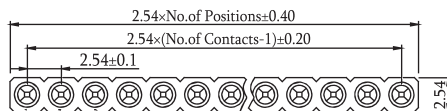
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

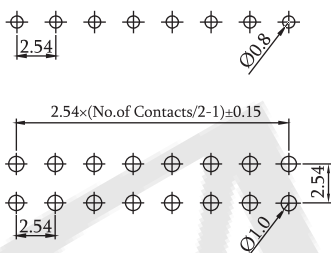


Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

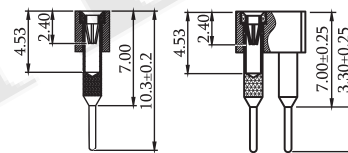
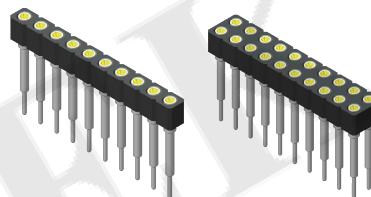
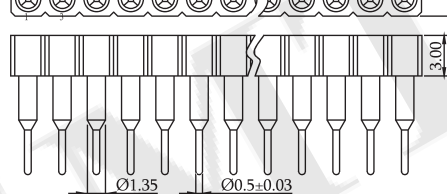
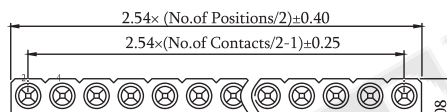
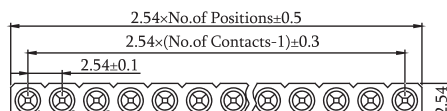
Code	Dim. A	Dim. L
0743	4.10	7.43
0830	---	8.30
1030	4.53	10.30



P/N.:5MS1S30N-1/2XXXXBXU-XXXX-01

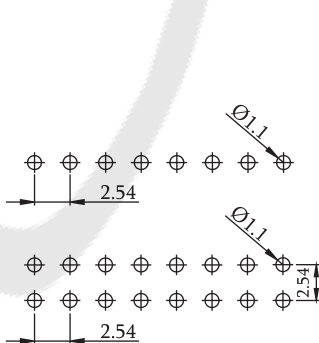


Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

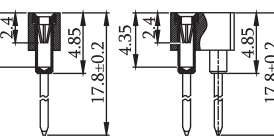
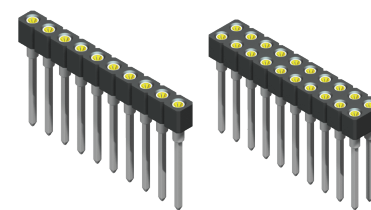
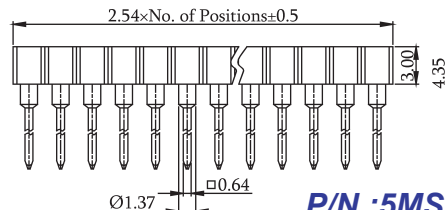
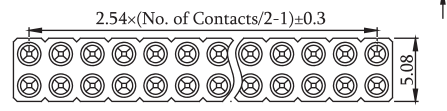
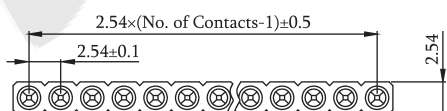


P/N.:5MS1S30N-1/2XXXXBXU-1030-01

Machine Pin Socket 2.54mm Square Pin Vertical Type H=3.0



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)



P/N.:5MS1K30N-1/2XXXXBXU-1780-01

ORDER INFORMATION

5 M S 1 X 3 0 N - X X X X B X U - XXXX - 0 1

S:Vertical
 K:SQ Vertical

N:Non Type
 1:Single Row
 2:Dual Row

Plastic Height
 30:H=3.0mm

B:Black Insulator

U: RoHS + Hi-Temp

See Code(Dim.L)

No. of Contacts
 Per Row
 (02~50)
 For 1030, Row:1 / 0743, 1780
 (02~100)
 For 1030, Row:2

G0:Gold Flash
 G3:Au 3u"
 GB:Au 10u"
 GF:Au 15u"
 T0:Tin Plated

S0:Selective Au
 SB:Selective Au 10u"
 SF:Selective Au 15u"
 SD:Selective Au 30u"
 Remark:
 Finger:Gold Plated/Sleeve:Tin Plated

T:Tube, W/O Cap
 A:Tray, W/O Cap
 B:Bag
 X:Box

0740=7.40mm
 1030=10.30mm
 1780=17.80mm

©:Standard Recommended

Old P/N:MS1S-1/2
 MS1SQ

Machine Pin Header 1.778mm IC Type H=3.0 L=10.0

Specifications

Current Rating: 1 AMP
 Contact Resistance: 10mΩ Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: -40°C to +105°C

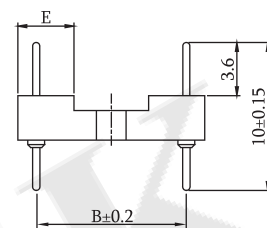
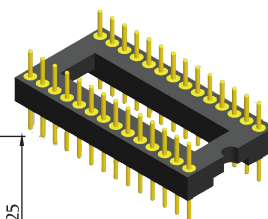
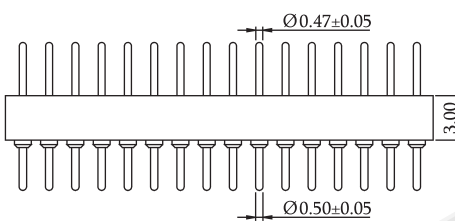
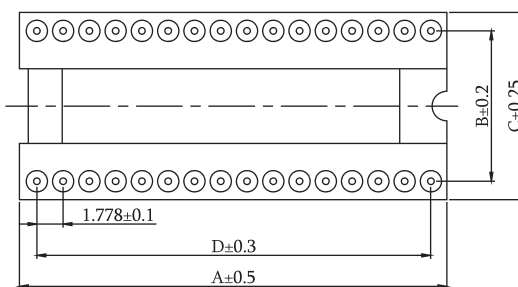
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



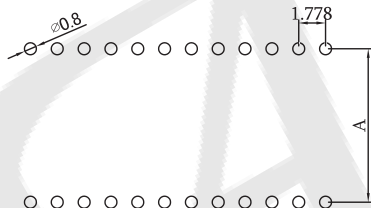
Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

Row spacing	No. of Contacts	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
4:0.4"(10.16)	24	21.80	10.16	12.70	19.558	3.1
	28	25.20	10.16	12.70	23.114	3.1
	30	27.00	10.16	12.70	24.892	3.1
	32	28.80	10.16	12.70	26.670	3.1
	48	43.10	10.16	12.70	40.894	3.1
6:0.6"(15.24)	20	18.10	15.24	17.78	16.002	3.1
	24	21.70	15.24	17.78	19.558	3.1
	28	25.20	15.24	17.78	23.114	3.1
	40	35.80	15.24	17.78	33.782	3.1
	42	37.70	15.24	17.78	35.560	3.1
	48	43.10	15.24	17.78	40.894	3.1
	52	46.70	15.24	17.78	44.450	3.1
	56	50.20	15.24	17.78	48.006	3.1
	64	57.30	15.24	17.78	55.118	3.1
68	60.90	15.24	17.78	58.674	3.1	
7:0.7"(19.05)	64	57.30	19.05	21.54	55.118	3.8



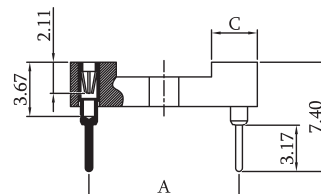
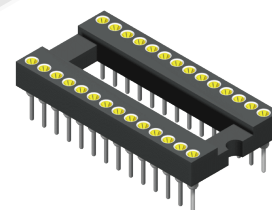
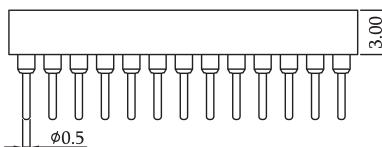
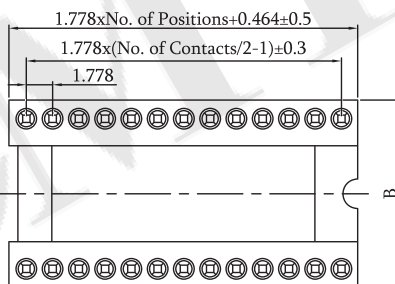
P/N.:5MI7S30B-XXXXXBTU-1000-01

Machine Pin Socket 1.778mm IC Type H=3.0 L=7.4



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

Row spacing	No. of Contacts	Dim. A	Dim. B	Dim. C
4:0.4"(10.16)	24	10.16	12.70	3.1
	28			
	30			
	32			
	48			
6:0.6"(15.24)	20	15.24	17.78	3.1
	24			
	28			
	40			
	42			
	48			
	52			
	56			
	64			
68				
7:0.7"(19.05)	64	19.05	21.54	3.8



P/N.:5MC7S30B-XXXXXBTU-0740-01

ORDER INFORMATION

5	M	X	7	S	3	0	B	-	X	X	X	X	B	T	U	-	XXXX	-	0	1
I: Machine Pin Header IC Type C: Machine Pin Socket IC Type					B: W/O Central Support			No. of Contacts See Table			B: Black Insulator			T: Tube, W/O Cap			1000=10.00mm For Header 0740=7.40mm For Socket			
Plastic Height 30:H=3.0mm					4:0.4"(10.16) 6:0.6"(15.24) 7:0.7"(19.05)			G0: Gold Flash GB: Au 10u" GF: Au 15u" GD: Au 30u"			S0: Selective Au SB: Selective Au 10u" SF: Selective Au 15u" SD: Selective Au 30u" T0: Tin Plated			U: RoHS + Hi-Temp						

Old P/N:MHIC2
MSIC2



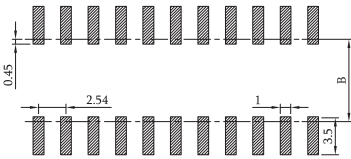
Machine Pin Header 2.54mm IC SMT Type H=3.0

Specifications

Current Rating: 1AMP
 Insulation Resistance: $\geq 1000M\Omega$ at $V=100V$
 Contact Resistance: $\leq 10m\Omega$ /Contact
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

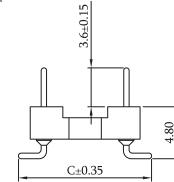
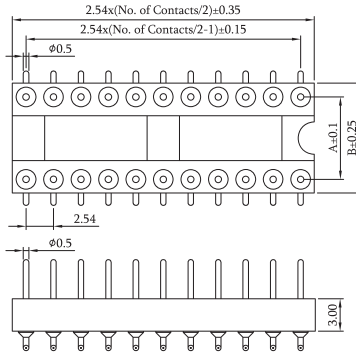
Material

Insulator: Hi-Temp. Thermoplastic, UL94V-0
 Terminal: Copper Alloy
 06P~18P W/O Center Support
 20P~32P With One Central Support
 36P~48P With Two Central Support

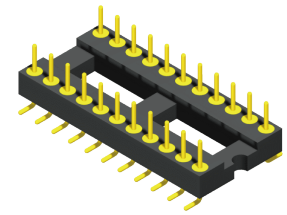


Recommended PCB Layout
(PCB TOLERANCE ± 0.05)

Row spacing	No. of Contacts	Dim. A	Dim. B	Dim. C
3:0.3"(7.62)	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 28	7.62	10.16	12.60
4:0.4"(10.16)	20, 22, 24, 28, 32	10.16	12.70	15.14
6:0.6"(15.24)	24, 28, 32, 36, 40, 42, 48	15.24	17.78	20.22



P/N.:5MI1M30X-XXXXXBXU-0000-01



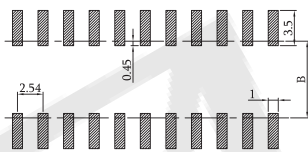
Machine Pin Socket 2.54mm IC SMT Type H=3.0

Specifications

Current Rating: 1 AMP
 Contact Resistance: 10m Ω Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ ~ $+105^{\circ}C$

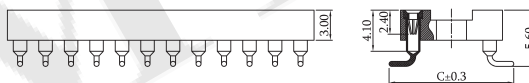
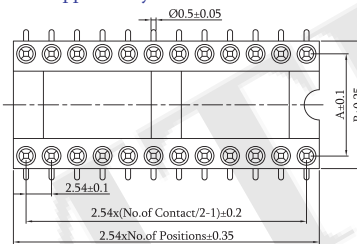
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy

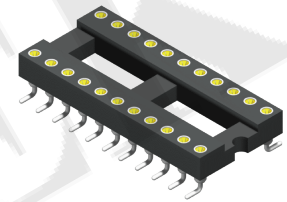


Recommended PCB Layout
(PCB TOLERANCE ± 0.05)

Row spacing	No. of Contacts	Dim. A	Dim. B	Dim. C
3:0.3"(7.62)	6, 8, 10, 14, 16, 18, 20, 22, 24, 28	7.62	10.16	12.60
4:0.4"(10.16)	20, 22, 24, 28, 32	10.16	12.70	15.14
6:0.6"(15.24)	24, 28, 32, 36, 40, 42, 48	15.24	17.78	20.22



P/N.:5MC1M30X-XXXXXBXU-0000-01



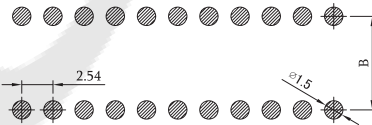
Machine Pin Socket 2.54mm IC Dot Type H=3.0

Specifications

Current Rating: 3 AMP
 Insulation Resistance: 1000M Ω Min.
 Contact Resistance: 10m Ω Max.
 Dielectric Voltage: 1000V AC for one minute
 Operation Temperature: $-40^{\circ}C$ to $+105^{\circ}C$

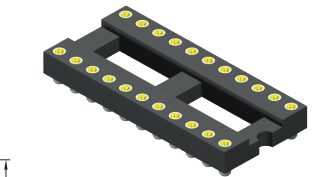
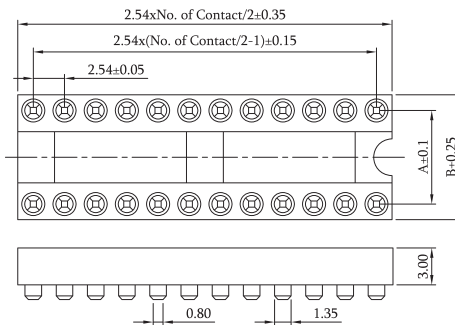
Material

Insulator: Hi-Temp. Thermoplastic, UL 94V-0
 Contact Pin: Copper Alloy



Recommended PCB Layout
(PCB TOLERANCE ± 0.05)

Row spacing	No. of Contacts	Dim. A	Dim. B
3:0.3"(7.62)	6, 8, 10, 14, 16, 18, 20, 22, 24, 28	7.62	10.16
4:0.4"(10.16)	20, 22, 24, 28, 32	10.16	12.70
6:0.6"(15.24)	24, 28, 32, 36, 40, 42, 48	15.24	17.78



P/N.:5MC1Q30X-XXXXXBTU-0000-01

ORDER INFORMATION

5	M	X	1	X	3	0	X	-	X	X	X	X	X	B	X	U	-	0000	-	0	1		
I: Machine Pin Header IC Type C: Machine Pin Socket IC Type			M: SMT Q: SMT Dot Type			Plastic Height 30: H=3.0mm			A: With central support B: W/O central support			No. of Contacts See Table			B: Black Insulator			T: Tube, W/O Cap H: T/R W/O Cap			0000=Other Type		
									3: 3:0.3"(7.62) 4: 4:0.4"(10.16) 6: 6:0.6"(15.24)			G0: Gold Flash GB: Au 10u" GF: Au 15u" T0: Tin Plated			S0: Selective Au SB: Selective Au 10u" SF: Selective Au 15u" SD: Selective Au 30u"			U: RoHS + Hi-Temp					

Old P/N: MHICM
MSICM
MSICM-1

©: Standard Recommended

