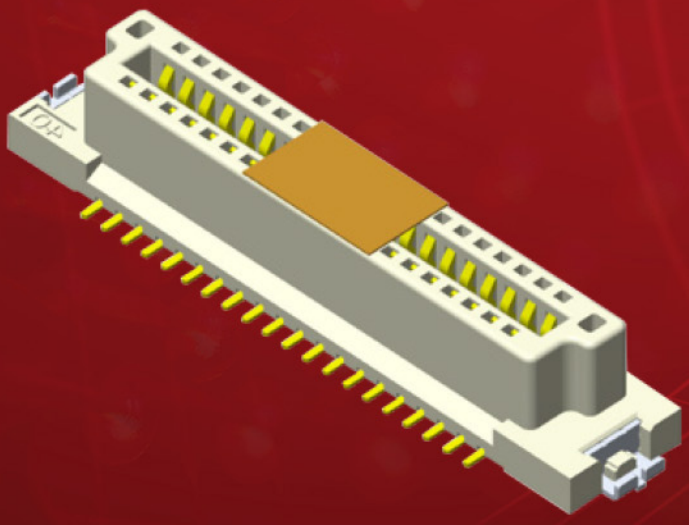
Board to Board
Connectors



B oard to Board Connectors

Board to Board 0.4mm

1-1 Board To Board 0.4mm Male H=1.15mm
1-2 Board to Board 0.4mm Female H=1.45/1.95/2.4/2.9/3.4/3.9mm

Board to Board 0.5mm

1-3 Board To Board 0.5mm Male H=0.8/1.0/1.5/2.0mm
1-3 Board To Board 0.5mm Female H=2.2/2.7/3.0/4.0/4.5mm
1-4 Board To Board 0.5mm Male H=2.2/2.7/4.8mm
1-4 Board To Board 0.5mm Female H=2.3/2.8/3.3/3.8/4.3/4.8mm

Board to Board 0.635mm

1-5 Board to Board 0.635mm Male H=5.0/6.0/7.0/8.0/9.0mm
1-6 Board to Board 0.635mm Female H=4.0mm
NEW 1-7 Floating Board to Board 0.635mm Male H=6.6/16.6mm
NEW 1-8 Floating Board to Board 0.635mm Female H=5.45/17.45mm

Board to Board 0.8mm

1-9 Board To Board 0.8mm Male H=4.75/5.75/7.75mm
1-10 Board To Board 0.8mm Female H=6.55/9.55/12.55mm
1-11 Board To Board 0.8mm Male H=8.0/11.0/12.0/13.0/14.0mm
1-12 Board To Board 0.8mm Female H=7.4/10.4/11.4/12.4/13.4mm
1-13 Board To Board 0.8mm Male H=4.6/5.6/6.6/7.6mm
1-14 Board To Board 0.8mm Female H=3.75/7.75/11.75mm
1-15 Board To Board 0.8mm Male H=3.55mm
1-16 Board To Board 0.8mm Female H=3.65/4.15/4.7/5.15/5.65/6.15mm
1-17 Board To Board 0.8mm Male H=1.0/1.5/2.0/3.0/4.0mm
1-17 Board To Board 0.8mm Female H=3.0/4.0/4.5mm
1-18 Board To Board 0.8mm Male H=2.72/3.72/4.72/10.14/11.14mm
1-18 Board To Board 0.8mm Female H=2.7/3.4/5.2mm

Board to Board 1.25mm

1-19 Board To Board 1.25mm Male H=3.95/5.95mm
1-20 Board To Board 1.25mm Male H=3.95/5.95mm

Board to Board 1.27mm

NEW 1-21 Board To Board 1.27mm Male H=5.9/9.5/14.8mm
NEW 1-22 Board To Board 1.27mm Female H=6.25/9.7mm

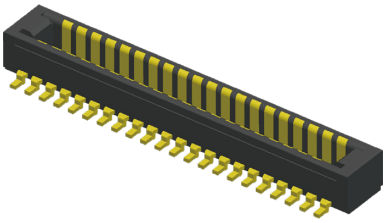
SMC Board to Board 1.27mm

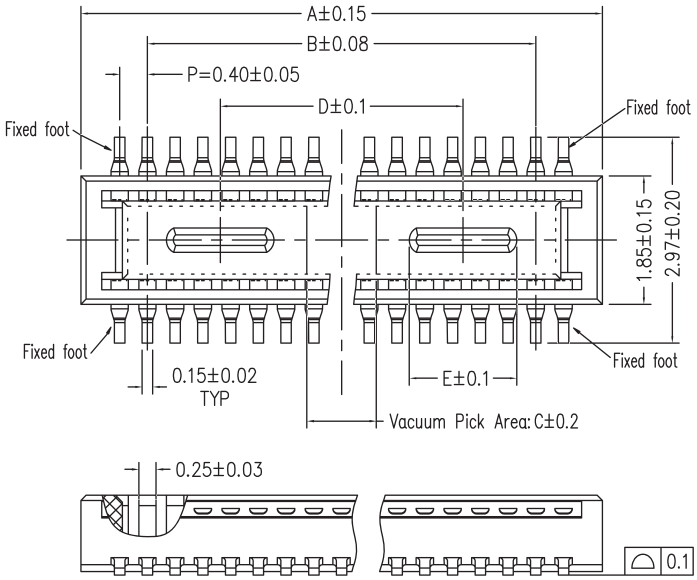
HOT 1-23 SMC Board To Board 1.27mm Male H=6.7mm
HOT 1-24 SMC Board To Board 1.27mm Female H=6.2/9.0/13.65mm
HOT 1-25 SMC Board To Board 1.27mm Male SMT R/A H=8.2mm
HOT 1-26 SMC Board To Board 1.27mm Female SMT R/A H=9.6mm
HOT 1-27 SMC Board To Board 1.27mm Male H=8.2mm
HOT 1-28 SMC Board To Board 1.27mm Male H=9.9mm
HOT 1-29 SMC Board To Board 1.27mm Male H=13.6mm

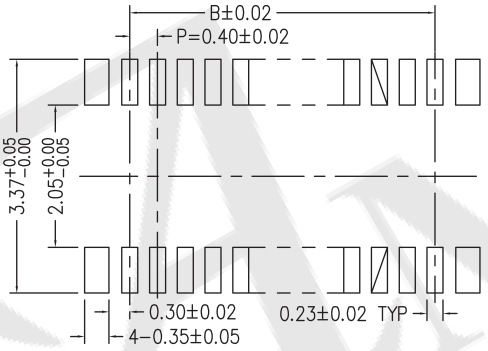
Board To Board 0.4mm Male H=1.15mm

Specifications
Current Rating: 0.3 AMP
Insulation Resistance: 50MΩ Min.
Contact Resistance: 90mΩ Max.
Withstand Voltage: 100V AC
Operation Temperature: -40°C to +105°C

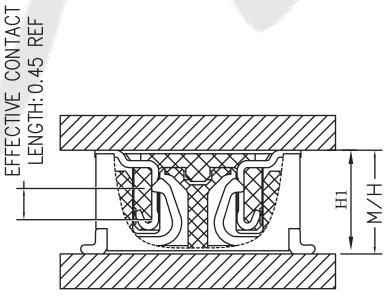
Material
Insulator: LCP, UL 94V-0, Black
Contact Pin: Copper Alloy







Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Dimensions				
	A	B	C	D	E
10	3.52	1.60	1.0	---	---
12	3.92	2.00	1.0	---	---
20	5.52	3.60	1.0	2.45	0.95
24	6.32	4.40	1.2	2.55	0.95
30	7.52	5.60	1.5	3.50	1.55
34	8.32	6.40	2.3	4.30	1.55
40	9.52	7.60	3.2	5.25	1.55
44	10.32	8.40	3.2	5.25	1.55
50	11.52	9.60	3.2	5.45	1.55
60	13.52	11.60	3.2	5.45	1.55
70	15.52	13.60	3.2	6.95	1.55
80	17.52	15.60	3.2	8.95	1.55
90	19.52	17.60	3.2	8.95	1.55
100(A1)	21.52	19.60	3.2	9.95	1.55

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
1.5	1.15	1.45
2.0		1.95
2.5		2.40
3.0		2.90
3.5		3.40
4.0		3.90

ORDER INFORMATION

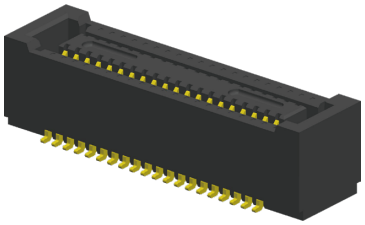
5 B B 0 4 — 04:Pitch 0.4
2 C — Type
1 1 — Plastic Height 11: H1=1.15mm
M - — M:Male
X X — No. of Contacts 10, 12, 20, 24, 30, 34, 40, 44, 50 60, 70, 80, 90, 100(A1)
G 3 — G3:Au 3u"
U — U:RoHS + Hi-Temp
H - 0 1 — H:T/R W/O Cap

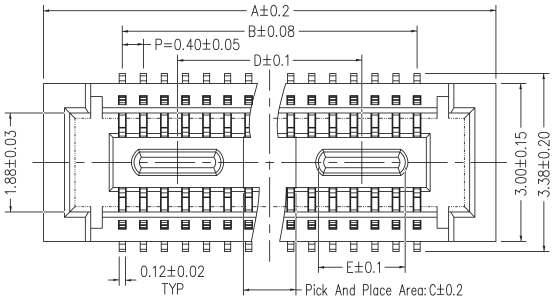
◎:Standard Recommended

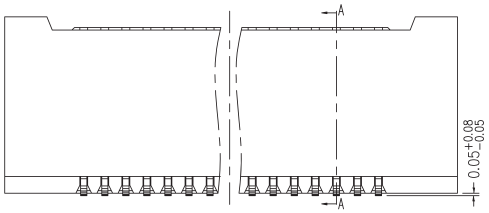
Board to Board 0.4mm Female H=1.45/1.95/2.4/2.9/3.4/3.9mm

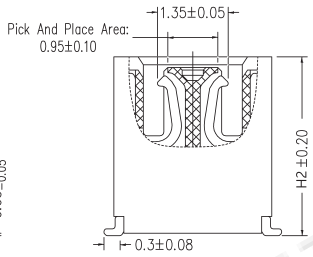
Specifications
Current Rating: 0.3 AMP
Insulation Resistance: 50MΩ Min.
Contact Resistance: 90mΩ Max.
Withstand Voltage: 100V AC
Operation Temperature: -40°C to +105°C

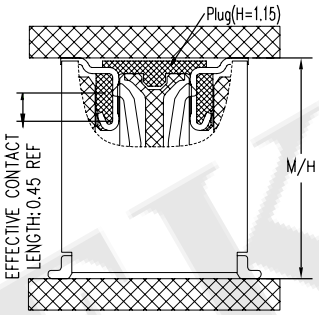
Material
Insulator: LCP, UL94 V-0, Black
Contact Pin: Copper Alloy





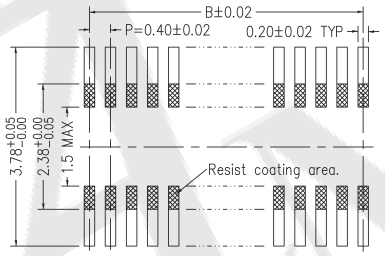






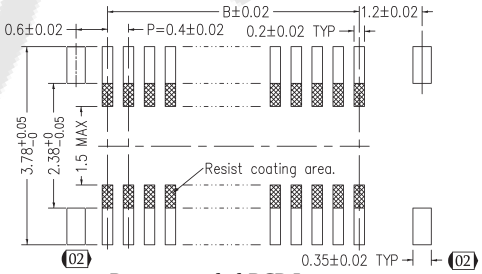
Mated Height

5BB042CXXF-XXG3UH-01



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

5BB042CXXF-XXG3UH-02



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions				
	A	B	C	D	E
10	4.60	1.60	1.0	---	---
20	6.60	3.60	1.0	2.45	1.05
24	7.40	4.40	1.0	2.55	1.05
30	8.60	5.60	1.5	3.50	1.65
34	9.40	6.40	2.3	4.30	1.65
40	10.60	7.60	3.2	5.25	1.65
44	11.40	8.40	3.2	5.25	1.65
50	12.60	9.60	3.2	5.45	1.65
60	14.60	11.60	3.2	6.95	1.65
70	16.60	13.60	3.2	8.95	1.65
80	18.60	15.60	3.2	8.95	1.65
90	20.60	17.60	3.2	8.95	1.65
100(A1)	22.60	19.60	3.2	9.95	1.65

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
1.5	1.15	1.45
2.0		1.95
2.5		2.40
3.0		2.90
3.5		3.40
4.0		3.90

ORDER INFORMATION

5 B B 0 4 — 04:Pitch 0.4
2 C — Type
X X — Plastic Height
- 14: H2=1.45mm
- 19: H2=1.95mm
- 24: H2=2.4mm
- 29: H2=2.9mm
- 34: H3.4mm
- 39: H2=3.9mm

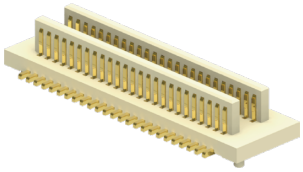
F — F:Female
-
X X — No. of Contacts
10, 20, 24, 30, 34, 40, 44, 50 60, 70, 80, 90, 100(A1)
G 3 — G3:Au 3u"
U — U:RoHS + Hi-Temp
H — H:T/R W/O Cap
-
X X
- 01:W/O Reinforcing metal fitting
- 02:With Reinforcing metal fitting

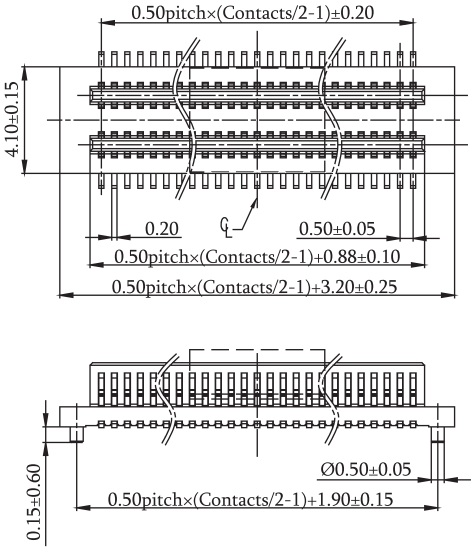
◎:Standard Recommended

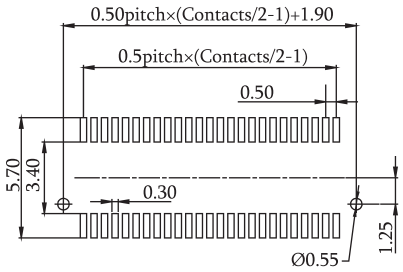
Board To Board 0.5mm Male H=0.8/1.0/1.5/2.0mm

Specifications
Current Rating: 0.5A
Voltage Rating: 50V AC/DC
Contact Resistance: 50mΩ Max.
Insulator Resistance: 100MΩ Min.
Operating Temperature: -20°C to +105°C

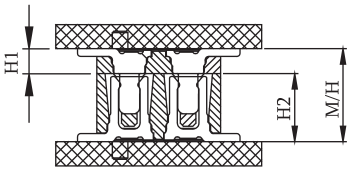
Material
Housing: High Temperature Thermoplastic, UL 94V-0 , Natural
Contacts: Phosphor Bronze



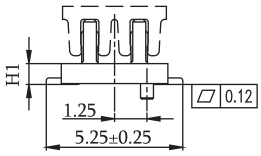




Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height



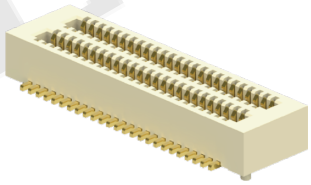
Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0	0.8	2.2
3.5		2.7
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	
5.5	1.5	4.0
6.0	2.0	
6.5		4.5

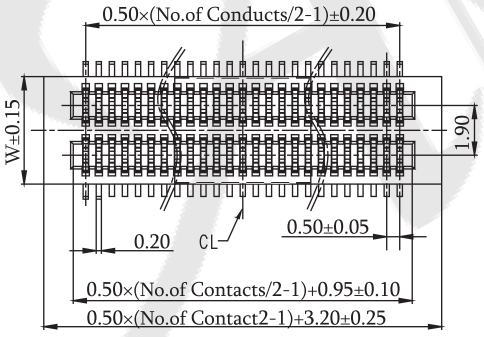
P/N.:5BB054CXXM

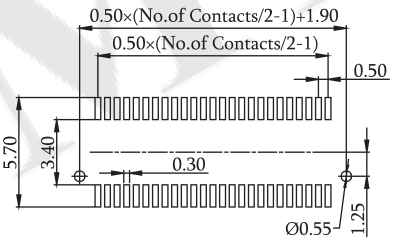
Board To Board 0.5mm Female H=2.2/2.7/3.0/4.0/4.5mm

Specifications
Current Rating: 0.5A
Voltage Rating: 50V AC/DC
Contact Resistance: 50mΩ Max.
Insulator Resistance: 100MΩ Min.
Operating Temperature: -20°C to +105°C

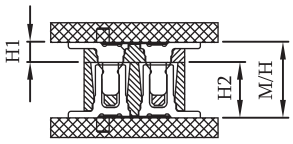
Material
Housing: High Temperature Thermoplastic, UL 94V-0 , Natural
Contacts: Phosphor Bronze



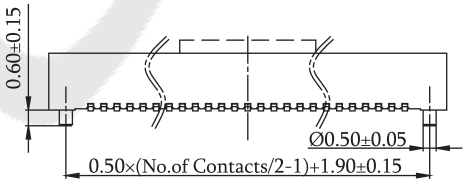


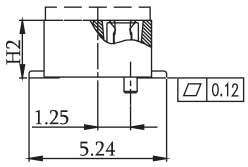


Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height





Mated Height	Dimension(mm)		
	Male(H1)	Female(H2)	W
3.0	0.8	2.2	4.4
3.5		2.7	
4.0	1.0	3.0	4.1
4.5	1.5		
5.0	2.0		
5.5	1.5	4.0	
6.0	2.0		
6.5		4.5	

P/N.:5BB054CXXF

ORDER INFORMATION

5	B	B	0	5	4	C	X	X	X	-	X	X	X	X	U	R	-	0	1
				05:Pitch 0.5		Type			M:Male F:Female		No. of Contacts 10, 12, 20, 30, 40, 50 60, 70, 80, 90, 100(A1)				U:RoHS + Hi-Temp		R:T/R with Cap		

Male Plastic Height	Female Plastic Height
08: H1=0.8mm	22: H2=2.2mm
10: H1=1.0mm	27: H2=2.7mm
15: H1=1.5mm	30: H2=3.0mm
20: H1=2.0mm	40: H2=4.0mm
	45: H2=4.5mm

G3:Au 3u"	S3:Selective Au 3u"
GA:Au 5u"	S5:Selective Au 5u"
GD:Au 30u"	

◎:Standard Recommended

RoHS

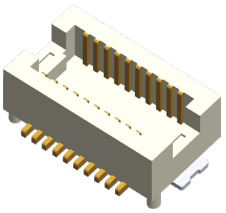
Board To Board 0.5mm Male H=2.3/2.8/3.3/3.8/4.3/4.8mm

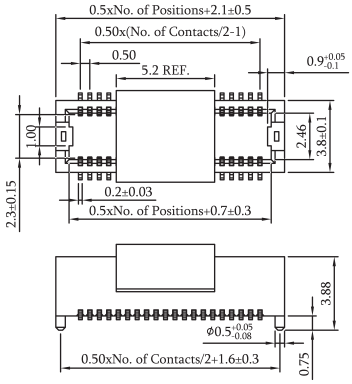
Specifications

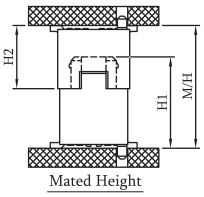
Current Rating: 0.5A
Contact Resistance: 30mΩ Max.
Insulation Resistance: 100MΩ Min.
Dielectric Voltage: 100V AC for one minute
Operating Temperature: -20°C to +105°C

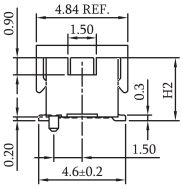
Material

Insulator: Nylon 9T, UL 94V-0, Natural
Contact Pin: Phosphor Bronze

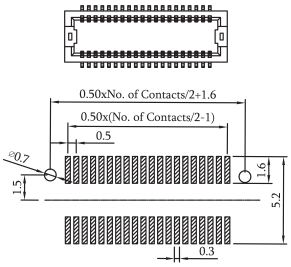






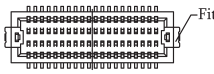


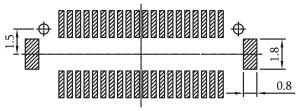
5BB055CXXM-XXXXUX-01



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

5BB055CXXM-XXXXUX-02





Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Mated Height	Plastic Height	
	Male(H2)	Female(H1)
3.0	2.3	2.2
3.5	2.8	
4.0	2.8	2.7
4.5	3.3	
5.0	3.8	
5.5	4.3	
6.0	4.8	
6.5	3.3	4.8
7.0	3.8	
7.5	4.3	
8.0	4.8	

P/N.:5BB055CXXM

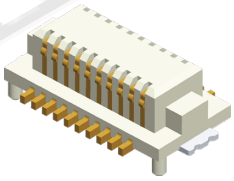
Board To Board 0.5mm Female H=2.2/2.7/4.8mm

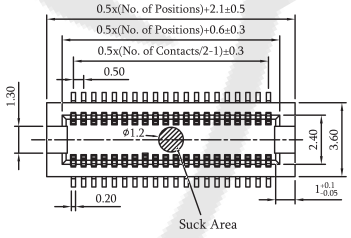
Specifications

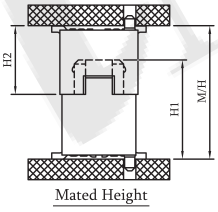
Current Rating: 0.5A
Contact Resistance: 30mΩ Max.
Insulation Resistance: 100MΩ Min.
Dielectric Voltage: 100V AC for one minute
Operating Temperature: -20°C to +105°C

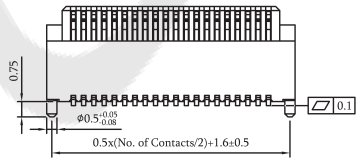
Material

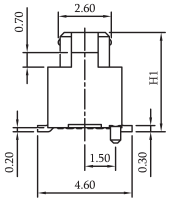
Insulator: Nylon 9T, UL 94V-0, Natural
Contact Pin: Phosphor Bronze



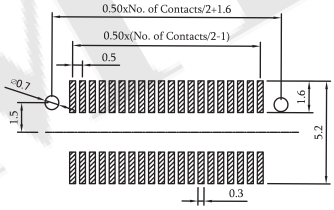






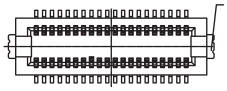


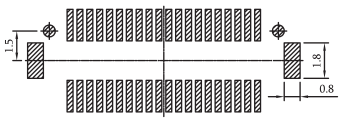
5BB055CXXF-XXXXUH-01



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

5BB055CXXF-XXXXUH-02





Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Mated Height	Plastic Height	
	Male(H2)	Female(H1)
3.0	2.3	2.2
3.5	2.8	
4.0	2.8	2.7
4.5	3.3	
5.0	3.8	
5.5	4.3	
6.0	4.8	
6.5	3.3	4.8
7.0	3.8	
7.5	4.3	
8.0	4.8	

P/N.:5BB055CXXF

ORDER INFORMATION

5	B	B	0	5	5	C	X	X	X	-	X	X	X	X	U	X	-	X	X

- 05: Pitch 0.5
- Type
- M: Male, F: Female
- No. of Contacts: 14, 20, 24, 30, 32, 36, 40, 50, 60
- U: RoHS + Nylon 9T
- R: T/R With Cap, H: T/R W/O Cap
- 01: W/O Fitting Nail, 02: With Fitting Nail

Male Plastic Height	Female Plastic Height
23: H1=2.3mm	22: H2=2.2mm
28: H1=2.8mm	27: H2=2.7mm
33: H1=3.3mm	48: H2=4.8mm
38: H1=3.8mm	
43: H1=4.3mm	
48: H1=4.8mm	

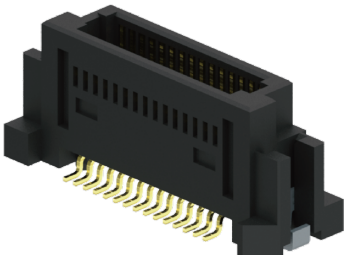
G3: Au 3u"
GB: Au 10u"
GF: Au 15u"
GD: Au 30u"
GH: Au 50u"

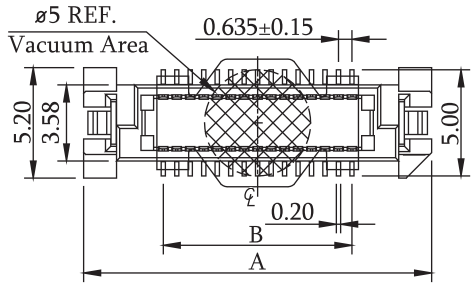
◎:Standard Recommended

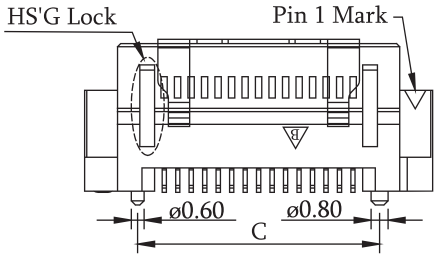
Board to Board 0.635mm Male H=5.0/6.0/7.0/8.0/9.0mm

Specifications
Current Rating: 0.5A
Contact Resistance: See Table 1
Insulator Resistance: 1000MΩ Min.
Dielectric Voltage: 250V AC for one minute
Operating Temperature: -55°C to +85°C

Material
Housing: LCP, UL 94V-0
Contacts: Phosphor Bronze
Fitting Nail: Brass, Tin Plated, T=0.25mm.
Metal Cap: Stainless Steel, T=0.20mm
Flatness: <80 Pin the "M" is 0.12mm Max.
≥80 Pin the "M" is 0.15mm Max.







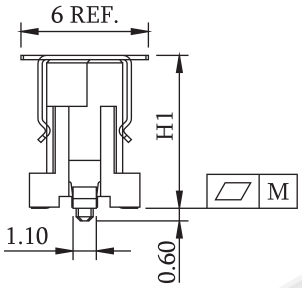
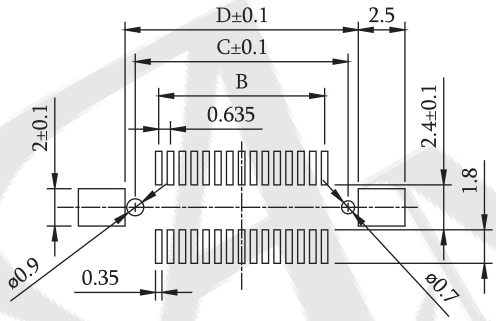


Table 2

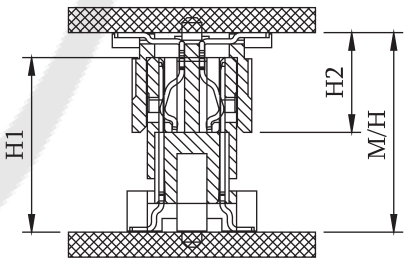
ASS'Y High(H)	Before Test	After Test
6.0 ~ 7.0	≦ 40mΩ	≦ 60mΩ
8.0 ~ 10.0	≦ 50mΩ	≦ 70mΩ
11.0 ~ 13.0	≦ 60mΩ	≦ 80mΩ
14.0 ~ 16.0	≦ 70mΩ	≦ 90mΩ



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Table 1

No. of Contacts	Dimensions				HS'G Lock
	A	B	C	D	
20	13.22	5.715	8.22	9.32	Yes
30	16.40	8.890	11.40	12.50	
40	19.57	12.065	14.57	15.67	
50	22.75	15.240	17.75	18.85	
60	25.92	18.415	20.92	22.02	
70	29.10	21.590	24.10	25.20	
80	32.27	24.765	27.27	28.37	No
90	35.45	27.940	30.45	31.55	
100(A1)	38.62	31.115	33.62	34.72	
120(A3)	44.97	37.465	39.97	41.07	
140(A5)	51.32	43.815	46.32	57.42	
160(A7)	57.67	50.165	52.67	53.77	



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
6.0	5.0	4.0
7.0	6.0	
8.0	7.0	
9.0	8.0	
10.0	9.0	
12.0	5.0	10.0
13.0	6.0	
14.0	7.0	
15.0	8.0	
16.0	9.0	

ORDER INFORMATION

5 B B 0 6 — 06:Pitch 0.635
1 C — Type
X X — Plastic Height
- 50: H1=5.0mm
- 60: H1=6.0mm
- 70: H1=7.0mm
- 80: H1=8.0mm
- 90: H1=9.0mm

M — M:Male
- No. of Contacts: 20, 30, 40, 50, 60, 70, 80, 90, 100(A1), 120(A3), 140(A5) , 160(A7)

X X
- G0:Gold Flash
- GA:Au 5u"
- GB:Au 10u"

X X
- S0:Selective Au
- S3:Selective Au 3u"
- SA:Selective Au 5u"
- SB:Selective Au 10u"

U — U:RoHS + LCP

R - — R:T/R With Cap

X X
- 01: Black
- 02: Natural

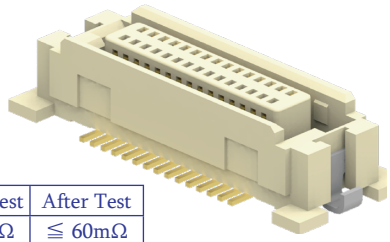
◎:Standard Recommended

RoHS

Board to Board 0.635mm Female H=4.0mm

Specifications
Current Rating: 0.5A
Contact Resistance: See Table 1, 2, 3
Insulator Resistance: 1000MΩ min.
Dielectric Voltage: AC 250V for one minute
Operating Temperature: -55°C to +85°C

Material
Housing: LCP, UL 94V-0
Contacts: Copper alloy
Fitting Nail: Brass, T=0.25mm.
Metal Cap: Stainless Steel, T=0.20mm.
Flatness: <80 Pin the "M" is 0.12mm Max.
≥80 Pin the "M" is 0.15mm Max.



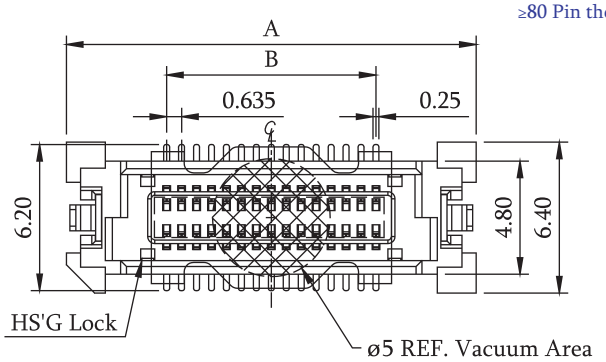
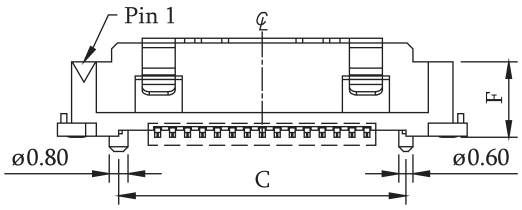


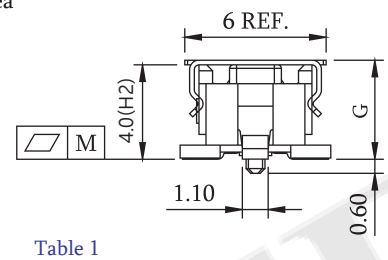
Table 2

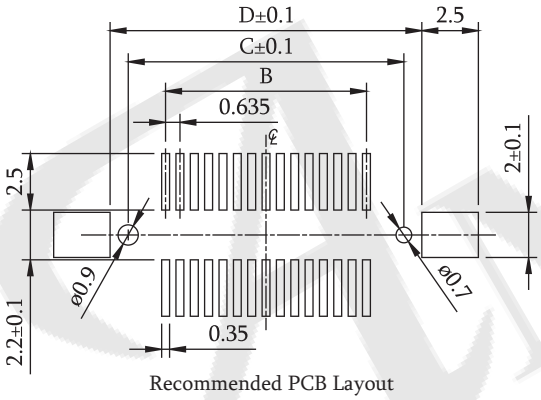
ASS'Y High(H)	Before Test	After Test
6.0 ~ 7.0	≦ 40mΩ	≦ 60mΩ
8.0 ~ 10.0	≦ 50mΩ	≦ 70mΩ
12.0 ~ 13.0	≦ 60mΩ	≦ 80mΩ
14.0 ~ 16.0	≦ 70mΩ	≦ 90mΩ

Table 3

Plastic Height Code	Dim F	Dim G
40	3.2	4.2
A0	9.2	10.2



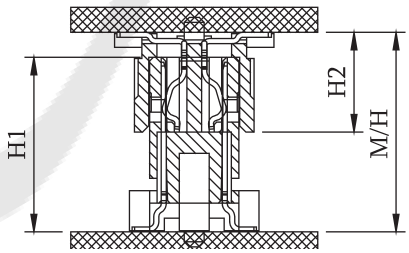




Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Table 1

No. of Contacts	Dimensions				HS'G Lock
	A	B	C	D	
20	14.22	5.715	9.02	10.62	Yes
30	17.40	8.890	12.20	13.80	
40	20.57	12.065	15.37	16.97	
50	23.75	15.240	18.55	20.15	
60	26.92	18.415	21.72	23.32	
70	30.10	21.590	24.90	26.50	
80	33.27	24.765	28.07	29.67	No
90	36.45	27.940	31.25	32.85	
100(A1)	39.62	31.115	34.42	36.02	
120(A3)	45.97	37.465	40.77	42.30	
140(A5)	52.32	43.815	47.12	48.72	
160(A7)	58.67	50.165	53.47	55.08	



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
6.0	5.0	4.0
7.0	6.0	
8.0	7.0	
9.0	8.0	
10.0	9.0	
12.0	5.0	10.0
13.0	6.0	
14.0	7.0	
15.0	8.0	
16.0	9.0	

ORDER INFORMATION

5 B B 0 6 | 1 C | X X | F - | X X | X X | U | R - | X X

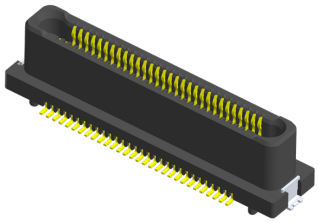
- 06:Pitch 0.635
- Type
- Plastic Height: 40: H2=4.0mm; A0: H2=10.0mm
- F:Female
- No. of Contacts: 20, 30, 40, 50, 60, 70, 80, 90, 100(A1), 120(A3), 140(A5) , 160(A7)
- G0:Gold Flash; GA:Au 5u"; GB:Au 10u"
- S0:Selective Au; S3:Selective Au 3u"; SA:Selective Au 5u"; SB:Selective Au 10u"
- U:RoHS + LCP
- R:T/R with Cap
- 01: Black; 02: Natural

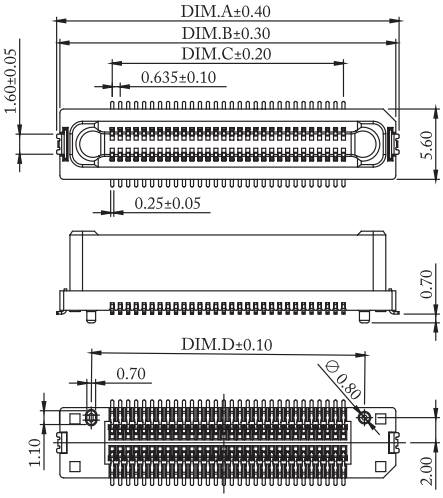
◎:Standard Recommended

Floating Board to Board 0.635mm Male H=6.6/16.6mm

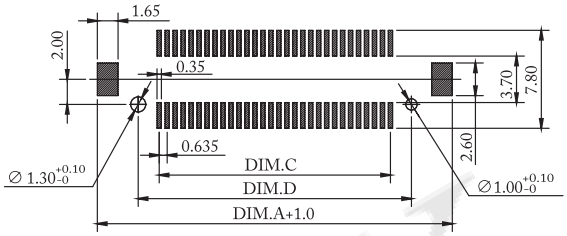
Specifications
Current Rating: 0.5A
Contact Resistance: 50mΩ Max.
Insulator Resistance: 100MΩ Min.
Dielectric Voltage: 50V AC for one minute
Operating Temperature: -40°C to +105°C

Material
Housing: LCP, UL 94V-0
Contacts: Phosphor Bronze
Holddown: Brass

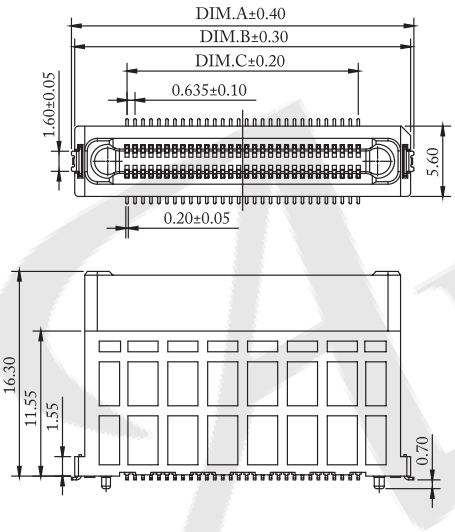


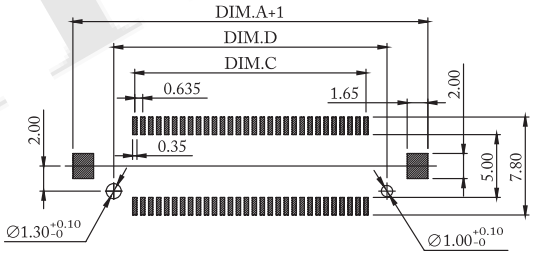


No. of Contacts	DIM.E
30 P	0.100
60 P	0.120
100 P	0.150

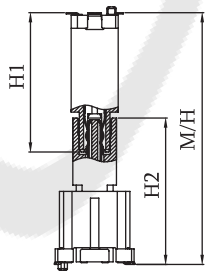


Recommended PCB Layout
(PCB TOLERANCE ±0.05)





Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.0	6.6	5.45
18.0	16.6	
20.0	6.6	17.45
30.0	16.6	

No. of Contacts	Dimensions			
	A	B	C	D
30	17.745	17.225	8.890	12.230
60	27.270	26.750	18.415	21.755
100(A1)	39.970	39.450	31.115	34.455

ORDER INFORMATION

5 B B 0 6 — 1 E — X X — A - — X X — G 4 — U — M - — 0 1

- 06:Pitch 0.635
- Plastic Height: 66: H1= 6.6mm; G6: H1=16.6mm
- No. of Contacts: 30, 60, 100(A1)
- G4: Au 4u"(CONTACT AREA)
- U:RoHS + LCP
- M:T/R With Mylar

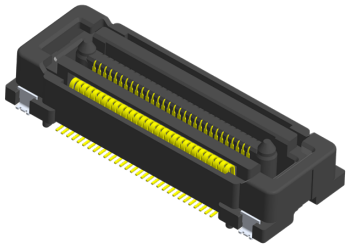
◎:Standard Recommended

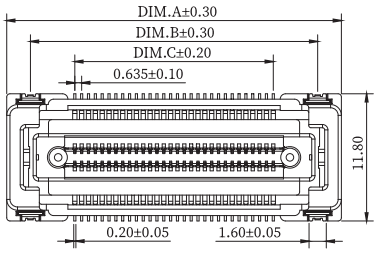
RoHS

Floating Board to Board 0.635mm Female H=5.45/17.45mm

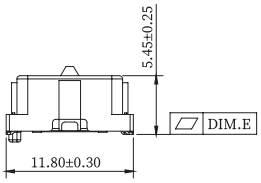
Specifications
Current Rating: 0.5A
Contact Resistance: 50mΩ Max.
Insulator Resistance: 100MΩ Min.
Dielectric Voltage: 50V AC for one minute
Operating Temperature: -40°C to +105°C

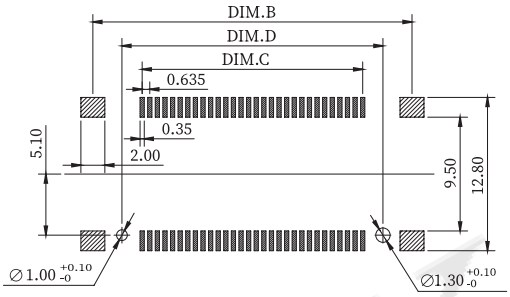
Material
Housing: LCP, UL 94V-0
Contacts: Phosphor Bronze
Holddown: Brass



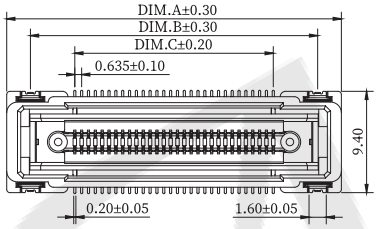


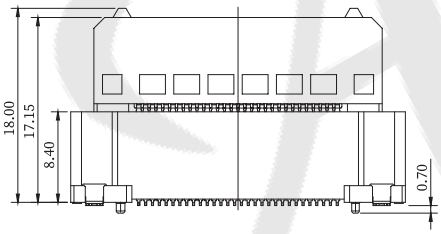
No. of Contacts	DIM.E
30 P	0.100
60 P	0.120
100 P	0.150

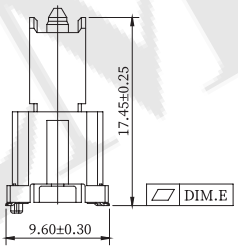


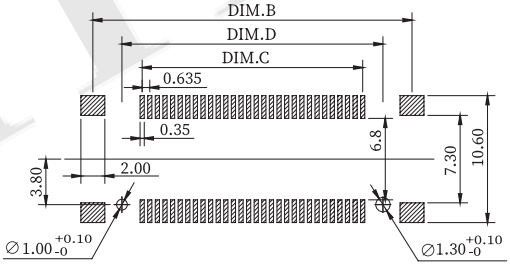


Recommended PCB Layout
(PCB TOLERANCE ±0.05)

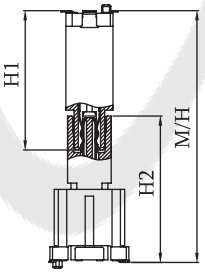








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.0	6.6	5.45
18.0	16.6	
20.0	6.6	17.45
30.0	16.6	

No. of Contacts	Dimensions			
	A	B	C	D
30	21.525	17.125	8.890	12.270
60	31.050	26.650	18.415	21.795
100(A1)	43.750	39.350	31.115	34.495

ORDER INFORMATION

5 B B 0 6 — 1 E — X X — B - — X X — G 4 — U — M - — 0 1

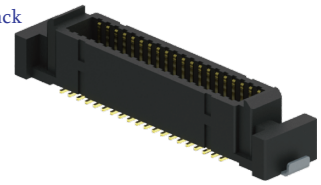
- 06:Pitch 0.635
- Plastic Height: 55:H= 5.45mm; H4:H=17.45mm
- No. of Contacts: 30, 60, 100(A1)
- G4: Au 4u"(CONTACT AREA)
- U:RoHS + LCP
- M:T/R With Mylar

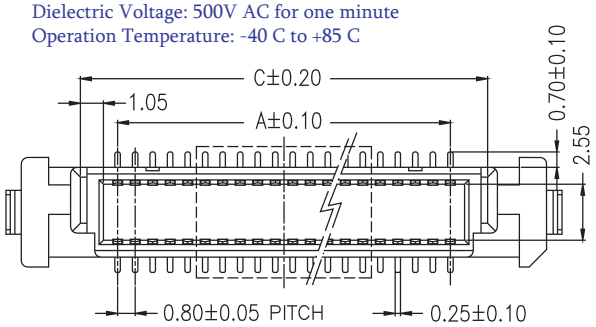
◎:Standard Recommended

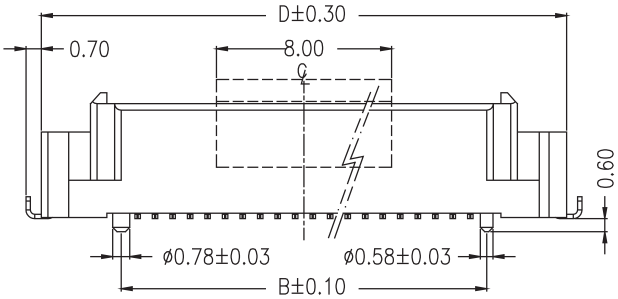
Board To Board 0.8mm Male H=4.75/5.75/7.75mm

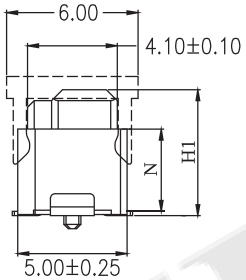
Specifications
Current Rating: 0.5 AMP
Voltage Rating: 200V AC / 300V DC
Insulation Resistance: 100MΩ Min.
Contact Resistance: 70mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -40 C to +85 C

Material
Insulator: High Temperature Thermoplastic,UL 94V-0 , Black
Contact Pin: Phosphor Bronze

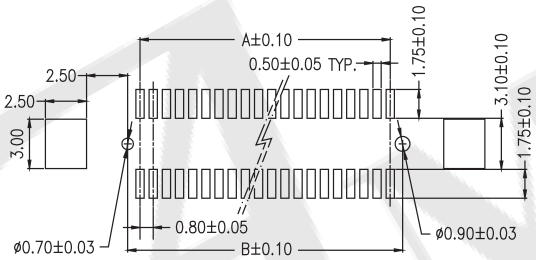






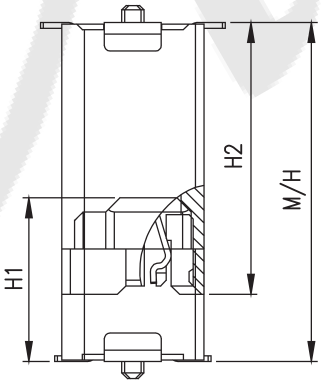


Plastic Height Code	N	H1
48	3.00	4.75
58	4.00	5.75
78	6.00	7.75



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions			
	A	B	C	D
20	7.20	8.70	10.60	16.00
30	11.20	12.70	14.60	20.00
40	15.20	16.70	18.60	24.00
50	19.20	20.70	22.60	28.00
60	23.20	24.70	26.60	32.00
70	27.20	28.70	30.60	36.00
80	31.20	32.70	34.60	40.00
100(A1)	39.20	40.70	42.60	48.00
120(A3)	47.20	48.70	50.60	56.00
140(A5)	55.20	56.70	58.60	64.00



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.0	4.75	6.55
9.0	5.75	
11.0	7.75	
11.0	4.75	9.55
12.0	5.75	
14.0	7.75	
14.0	4.75	12.55
15.0	5.75	
17.0	7.75	

ORDER INFORMATION

5 B B 0 8 — 1 C — X X — M — X X — X X — U — R - 0 1

- 08:Pitch 0.8
- Type
- Plastic Height: 48: H1=4.75mm; 58: H1=5.75mm; 78: H1=7.75mm
- M:Male
- No. of Contacts: 20, 30, 40, 50, 60, 70, 80, 100(A1), 120(A3), 140(A5)
- G3:Au 3u" / GA:Au 5u" / S3:Selective Au 3u" / SA:Selective Au 5u"
- U:RoHS + Hi-Temp
- R:T/R With Cap

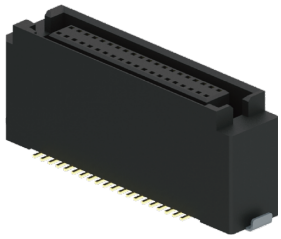
◎:Standard Recommended

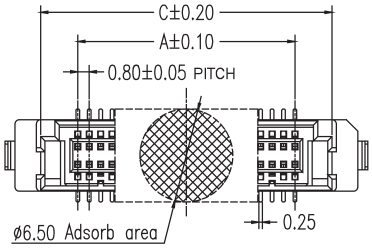
RoHS

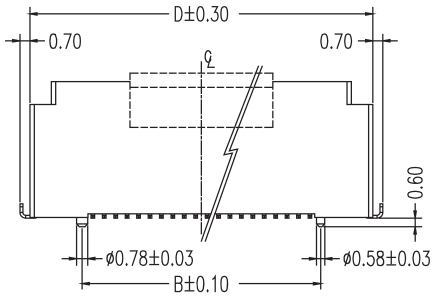
Board To Board 0.8mm Female H=6.55/9.55/12.55mm

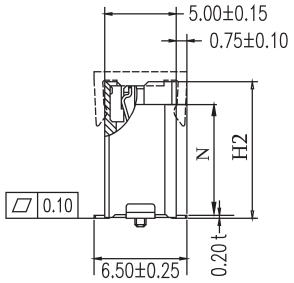
Specifications
Current Rating: 0.5 AMP
Voltage Rating: 200V AC / 300V DC
Insulation Resistance: 100MΩ Min.
Contact Resistance: 70mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -40 C to +85 C

Material
Insulator: High Temperature Thermoplastic,UL 94V-0 , Black
Contact Pin: Copper Alloy

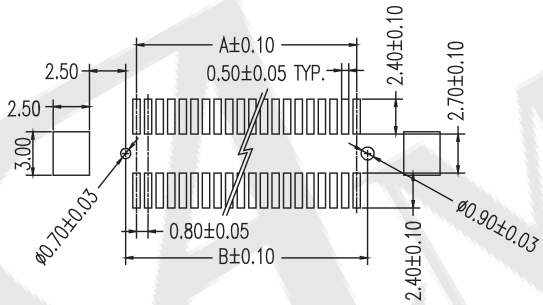






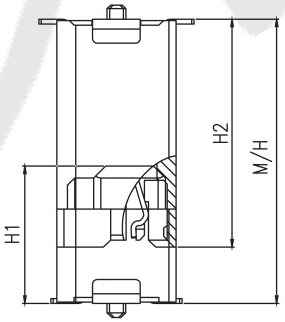


Plastic Height Code	N	H2
66	5.00	6.55
96	8.00	9.55
4A	11.00	12.55



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions			
	A	B	C	D
20	7.20	8.70	12.30	16.00
30	11.20	12.70	16.30	20.00
40	15.20	16.70	20.30	24.00
50	19.20	20.70	24.30	28.00
60	23.20	24.70	28.30	32.00
70	27.20	28.70	32.30	36.00
80	31.20	32.70	36.30	40.00
100(A1)	39.20	40.70	44.30	48.00
120(A3)	47.20	48.70	52.30	56.00
140(A5)	55.20	56.70	60.30	64.00



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.0	4.75	6.55
9.0	5.75	
11.0	7.75	
11.0	4.75	9.55
12.0	5.75	
14.0	7.75	
14.0	4.75	12.55
15.0	5.75	
17.0	7.75	

ORDER INFORMATION

5 B B 0 8 — 1 C — X X — F — - — X X — X X — U — R - 0 1

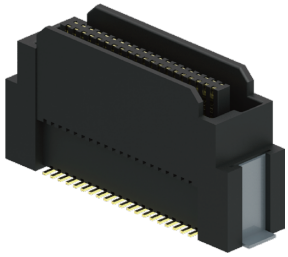
- 08:Pitch 0.8
- Type
- Plastic Height
  - 66: H2=6.55mm
  - 96: H2=9.55mm
  - 4A: H2=12.55mm
- F:Female
- No. of Contacts: 20, 30, 40, 50, 60, 70, 80, 100(A1), 120(A3), 140(A5)
- G3:Au 3u" / GA:Au 5u"
- S3:Selective Au 3u" / SA:Selective Au 5u"
- U:RoHS + Hi-Temp
- R:T/R With Cap

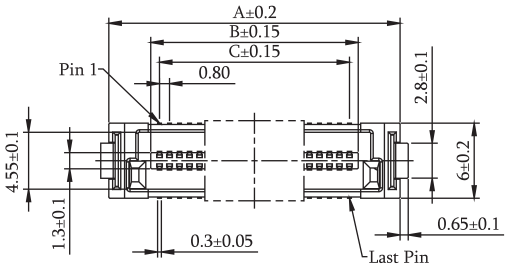
◎:Standard Recommended

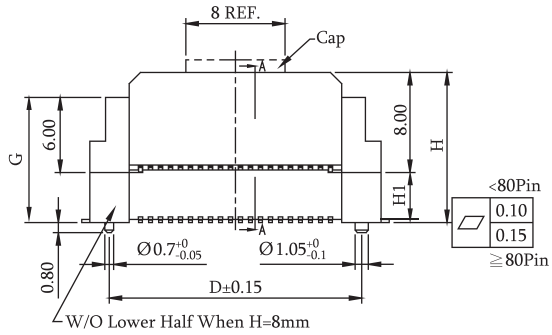
Board To Board 0.8mm Male H=8.0/11.0/12.0/13.0/14.0mm

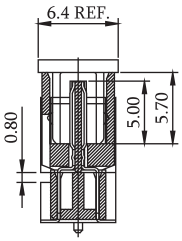
Specifications
Current Rating: 0.5A
Contact Resistance: 65mΩ Max.
Insulator Resistance: DC 500V
Dielectric Voltage: 250V AC for one minute
Operating Temperature: -40°C to +105°C

Material
Housing: LCP+30%GF, UL 94V-0, Black
Contact Pin: Phosphor Bronze
Cap: LCP+30%GF, UL 94V-0, Black
Mousing Ear: Phosphor Bronze

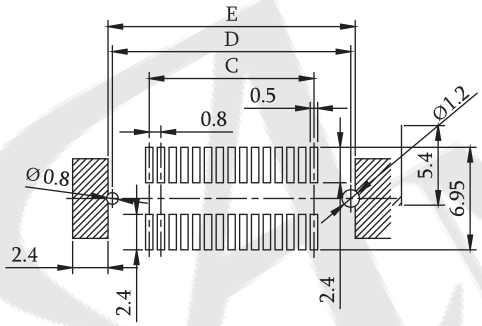






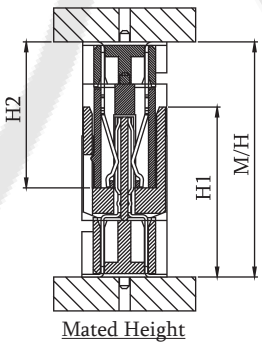


Plastic Height Code	H	G	H1
80	8.00	6.00	---
7A	11.00	9.00	3.00
8A	12.00	10.00	4.00
9A	13.00	11.00	5.00
1B	14.00	12.00	6.00



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions				
	A	B	C	D	E
20	15.30	8.60	7.20	12.20	12.80
30	19.30	12.60	11.20	16.20	16.80
40	23.30	16.60	15.20	20.20	20.80
50	27.30	20.60	19.20	24.20	24.80
60	31.30	24.60	23.20	28.20	28.80
80	39.30	32.60	31.20	36.20	36.80
100(A1)	47.30	40.60	39.20	44.20	44.80
120(A3)	55.30	48.60	47.20	52.20	52.80
160(A7)	71.30	64.60	63.20	68.20	68.80



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
10.0	8.0	7.4
13.0	11.0	
14.0	12.0	
15.0	13.0	
16.0	11.0	10.4
17.0	12.0	
18.0	13.0	
19.0	13.0	11.4
20.0	13.0	12.4
22.0	14.0	13.4

ORDER INFORMATION

5 B B 0 8 — 3 C — X X — M — X X — X X — U — R - 0 1

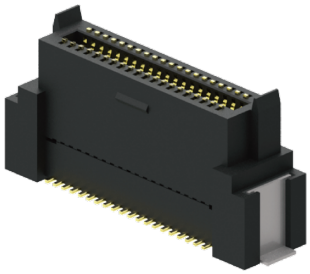
- 08: 08:Pitch 0.8
- 3C: Type
- XX: Plastic Height
  - 80: H1=8.00mm
  - 7A: H1=11.00mm
  - 8A: H1=12.00mm
  - 9A: H1=13.00mm
  - 1B: H1=14.00mm
- M: M:Male
- XX: No. of Contacts
  - 20, 30, 40, 50, 60, 80 100(A1), 120(A3), 160(A7)
- XX: S3:Selective Au 3u"; SA:Selective Au 5u"
- U: U:RoHS + Hi-Temp
- R-01: R:T/R with Cap

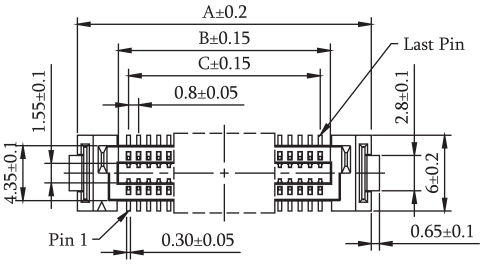
◎:Standard Recommended

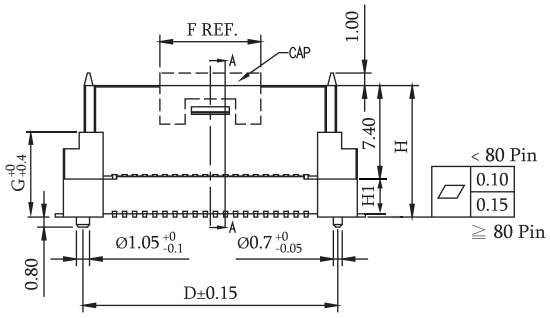
Board To Board 0.8mm Female H=7.4/10.4/11.4/12.4/13.4mm

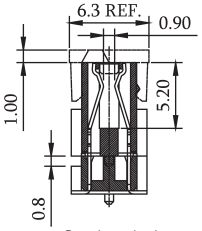
Specifications
Current rating: 0.5A
Contact Resistance: 65mΩ Max.
Insulator Resistance: 1000MΩ Min.
Dielectric Voltage: 250V AC for one minute
Operating Temperature: -40°C to +105°C

Material
Insulation: Hi-Temp. Thermoplastic, UL 94V-0, Black
Contact Pin: Phosphor Bronze





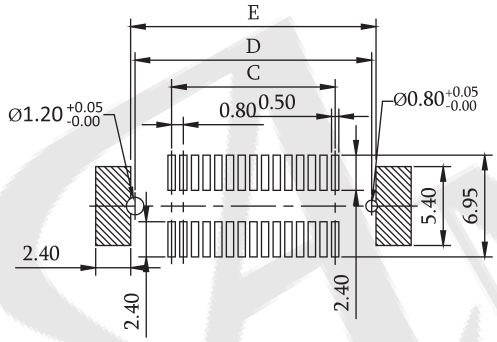




Section A-A

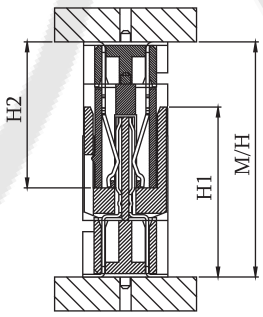
Dimension F REF.	Applicable Pins
8	20-30
16	40-50
24	60-70
32	80-90
40	100-110-120

Plastic Height Code	H	G	H1
74	7.40	4.00	---
1A	10.40	7.00	3.00
2A	11.40	8.00	4.00
3A	12.40	9.00	5.00
5A	13.40	10.00	6.00



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions				
	A	B	C	D	E
20	15.30	8.80	7.20	12.20	12.80
30	19.30	12.80	11.20	16.20	16.80
40	23.30	16.80	15.20	20.20	20.80
50	27.30	20.80	19.20	24.20	24.80
60	31.30	24.80	23.20	28.20	28.80
80	39.30	32.80	31.20	36.20	36.80
100(A1)	47.30	40.80	39.20	44.20	44.80
120(A3)	55.30	48.80	47.20	52.20	52.80
160(A7)	71.30	64.80	63.20	68.20	68.80



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
10.0	8.0	7.4
13.0	11.0	
14.0	12.0	
15.0	13.0	
16.0	11.0	10.4
17.0	12.0	
18.0	13.0	
19.0	13.0	11.4
20.0	13.0	12.4
22.0	14.0	13.4

ORDER INFORMATION

5	B	B	0	8	3	C	X	X	F	-	X	X	X	X	U	R	-	0	1

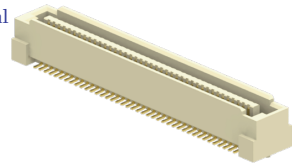
- 08:Pitch 0.8
- Type
- Plastic Height
  - 74: H2=7.40mm
  - 1A: H2=10.40mm
  - 2A: H2=11.40mm
  - 3A: H2=12.40mm
  - 5A: H2=13.40mm
- F:Female
- No. of Contacts
  - 20, 30, 40, 50, 60, 80 100(A1), 120(A3), 160(A7)
- S3:Selective Au 3u"
- SA:Selective Au 5u"
- U:RoHS + Hi-Temp
- R:T/R with Cap

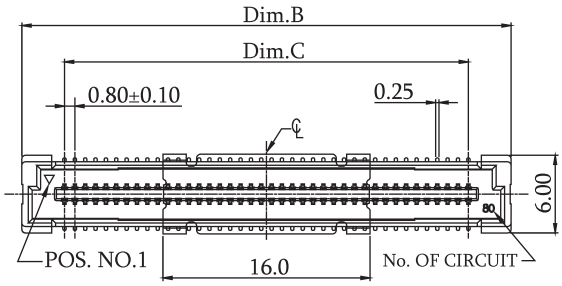
◎:Standard Recommended

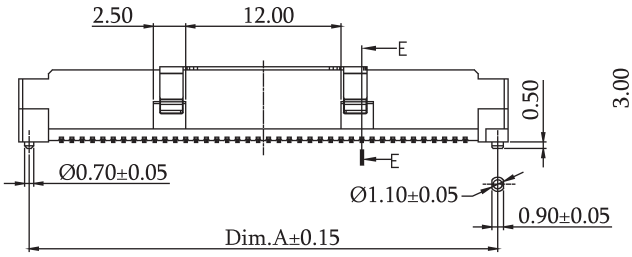
Board To Board 0.8mm Male H=4.6/5.6/6.6/7.6mm

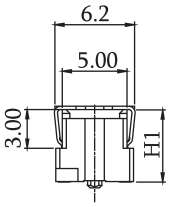
Specifications
Current rating: 0.5A
Contact resistance: 30mΩMax.
Insulator resistance: 500MΩ Min.
Withstanding voltage: AC 100V / minute
Operating Temperature: -40°C ~ +125°C

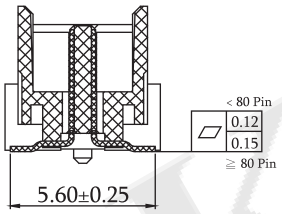
Material
Housing: High Temperature Thermoplastic, UL 94V-0, Natural
Contacts: Phosphor Bronze



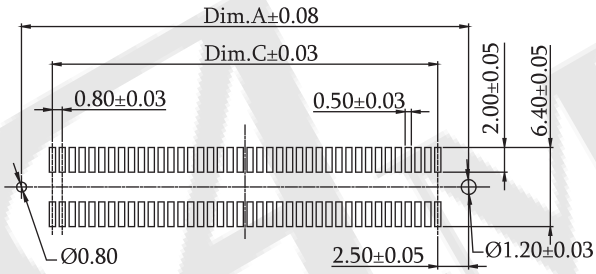






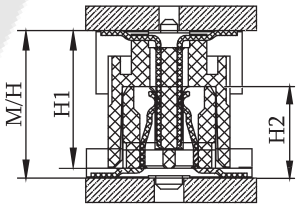


Section E-E



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions		
	A	B	C
40	20.20	21.80	15.20
60	28.20	29.80	23.20
80	36.20	37.80	31.20
100(A1)	44.20	45.80	39.20
120(A3)	52.20	53.80	47.20
140(A5)	60.20	61.80	55.20
160(A7)	68.20	69.80	63.20



Mated Height

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
5.0	4.6	3.75
6.0	5.6	
7.0	6.6	
8.0	7.6	
9.0	4.6	7.75
10.0	5.6	
11.0	6.6	
12.0	7.6	
13.0	4.6	11.75
14.0	5.6	
15.0	6.6	
16.0	7.6	

ORDER INFORMATION

5	B	B	0	8	5	C	X	X	M	-	X	X	X	X	U	X	-	0	1

- 08:Pitch 0.8
- Type
- Plastic Height: 46:H1=4.60mm; 56:H1=5.60mm; 66:H1=6.60mm; 76:H1=7.60mm
- M:Male
- No. of Contacts: 40, 60, 80, 100(A1), 120(A3), 140(A5), 160(A7)
- S3:Selective Au 3u"; SB:Selective Au 10u"
- U:RoHS + Hi-Temp
- R:T/R with Cap

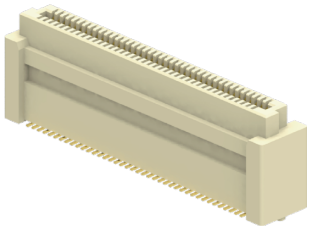
◎:Standard Recommended

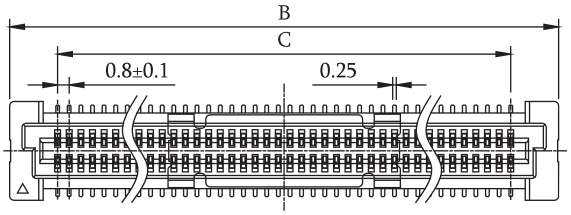
RoHS

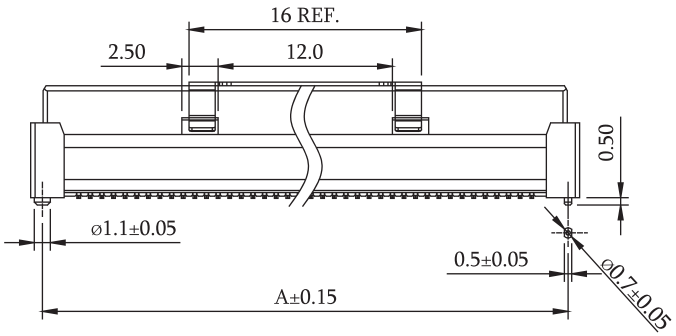
Board To Board 0.8mm Female H=3.75/7.75/11.75mm

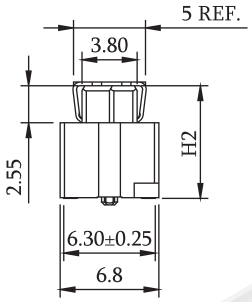
Specifications
Current Rating: 0.5A
Contact Resistance: 30mΩ Max.
Insulator Resistance: 500MΩ Min.
Dielectric Voltage: 100V AC for one minute
Operating Temperature: -40°C to +125°C

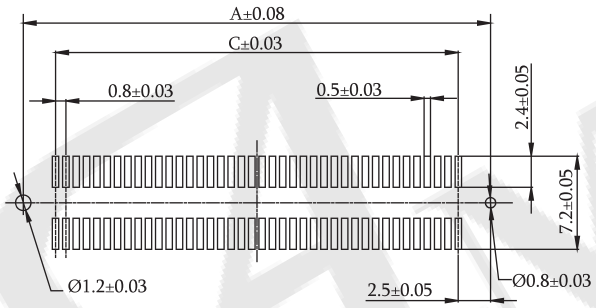
Material
Housing: Hi-Temp. Thermoplastic, UL 94V-0, Natural
Contacts: Phosphor Bronze



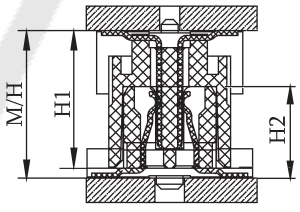








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Dimensions		
	A	B	C
40	20.20	21.80	15.20
60	28.20	29.80	23.20
80	36.20	37.80	31.20
100(A1)	44.20	45.80	39.20
120(A3)	52.20	53.80	47.20
140(A5)	60.20	61.80	55.20
160(A7)	68.20	69.80	63.20

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
5.0	4.6	3.75
6.0	5.6	
7.0	6.6	
8.0	7.6	
9.0	4.6	7.75
10.0	5.6	
11.0	6.6	
12.0	7.6	
13.0	4.6	11.75
14.0	5.6	
15.0	6.6	
16.0	7.6	

ORDER INFORMATION

5	B	B	0	8	5	C	X	X	F	-	X	X	X	X	U	X	-	0	1

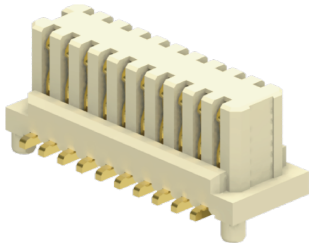
- 08:Pitch 0.8
- Type
- Plastic Height
  - 38: H2=3.75mm
  - 78: H2=7.75mm
  - 2B: H2=11.75mm
- F:Female
- No. of Contacts
  - 40, 60, 80, 100(A1), 120(A3), 140(A5), 160(A7)
- S3:Selective Au 3u"
- SB:Selective Au 10u"
- U:RoHS + Hi-Temp
- R:T/R with Cap

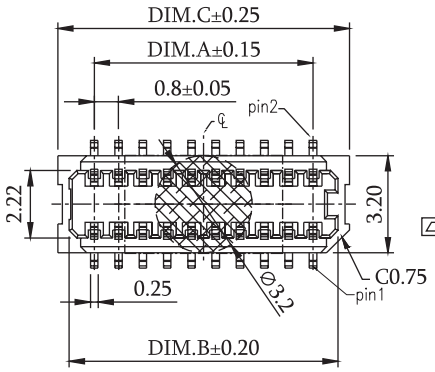
◎:Standard Recommended

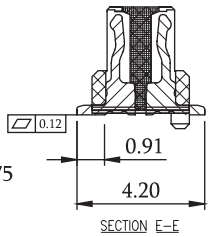
Board To Board 0.8mm Male H=3.55mm

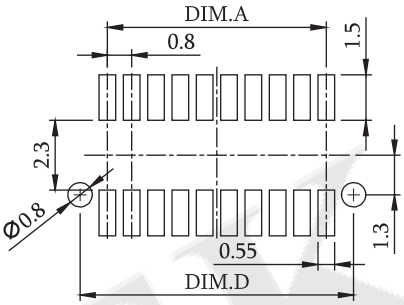
Specifications
Current Rating: 0.5A
Contact Resistance: 30mΩ Max.
Insulator Resistance: 100MΩ Min.
Dielectric Voltage: 500V AC for one minute
Operating Temperature: -20°C ~ +105°C

Material
Housing: Hi-Temp. Thermoplastic, UL 94V-0, Natural
Contact Pin: Phosphor Bronze

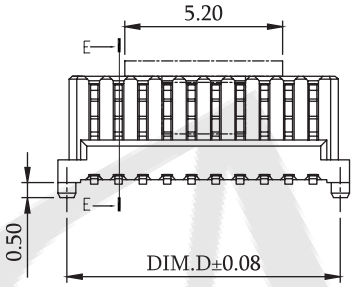


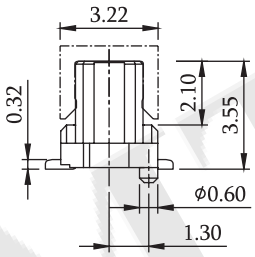




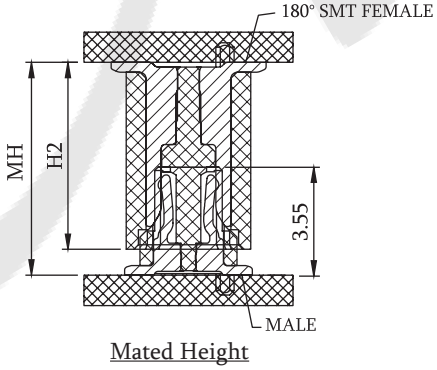


Recommended PCB Layout
(PCB TOLERANCE ±0.05)





No. of Contacts	Dimensions			
	A	B	C	D
10	3.20	4.85	5.60	5.00
12	4.00	5.65	6.40	5.80
14	4.80	6.45	7.20	6.60
16	5.60	7.25	8.00	7.40
18	6.40	8.05	8.80	8.20
20	7.20	8.85	9.60	9.00
22	8.00	9.65	10.40	9.80
24	8.80	10.45	11.20	10.60
26	9.60	11.25	12.00	11.40
28	10.40	12.05	12.80	12.20
30	11.20	12.85	13.60	13.00
32	12.00	13.65	14.40	13.80
34	12.80	14.45	15.20	14.60
36	13.60	15.25	16.00	15.40
38	14.40	16.05	16.80	16.20
40	15.20	16.85	17.60	17.00



Mated Height

180°

NO.		Plastic Height	
Male P/N	Female P/N	Female(H2)	Mated Height (M/H)
5BB08BC36M-XXXXUR-01	5BB08BC36F-XXXXUR-01	3.65	4.50
	5BB08BC41F-XXXXUR-01	4.15	5.00
	5BB08BC47F-XXXXUR-01	4.70	5.65
	5BB08BC51F-XXXXUR-01	5.15	6.00
	5BB08BC56F-XXXXUR-01	5.65	6.50
	5BB08BC61F-XXXXUR-01	6.15	7.00

ORDER INFORMATION

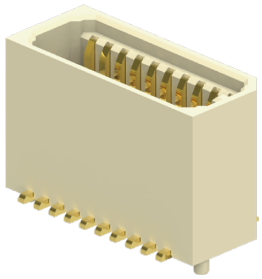
5	B	B	0	8		B	C		3	6		M	-		X	X		X	X		U		R	-	0	1
				08:Pitch 0.8			Type			Plastic Height 36: H1=3.55mm			M:Male			No. of Contacts 10~40			G3:Au 3u" GA:Au 5u" GB:Au 10u"			U:RoHS + Hi-Temp			R:T/R with Cap		

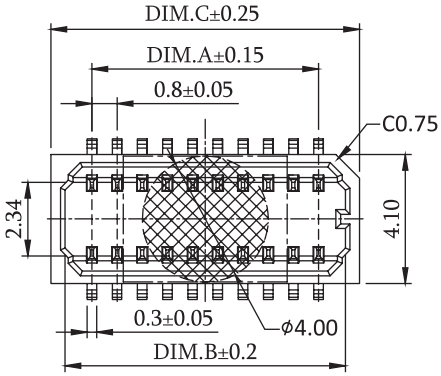
◎:Standard Recommended

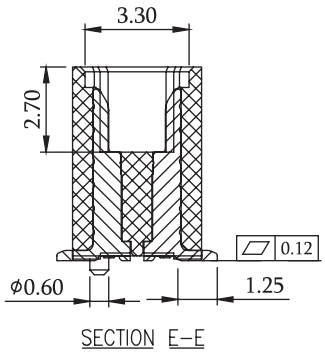
Board To Board 0.8mm Female H=3.65/4.15/4.7/5.15/5.65/6.15mm

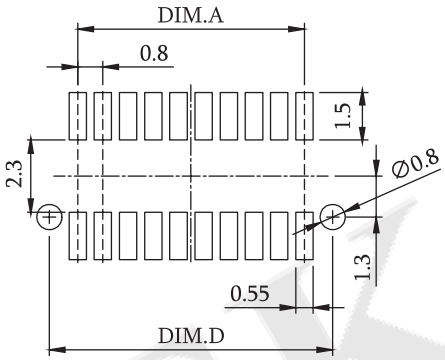
Specifications
Current Rating: 0.5A
Contact Resistance: 30mΩ Max.
Insulation Resistance: 100MΩ Min.
Dielectric Voltage: 500V AC for one minute
Operating Temperature: -20°C ~ +105°C

Material
Insulator: Hi-Temp. Thermoplastic, UL 94V-0, Natural
Contact Pin: Phosphor Bronze

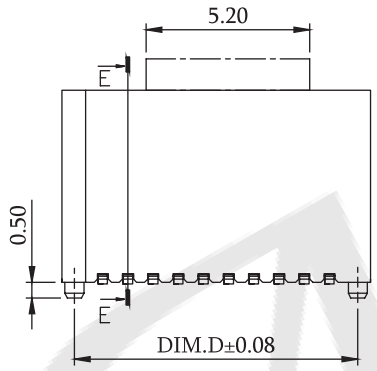


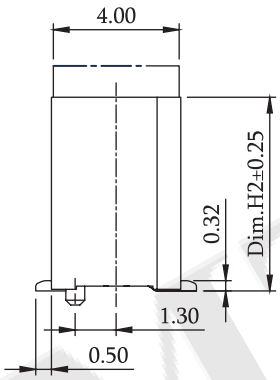




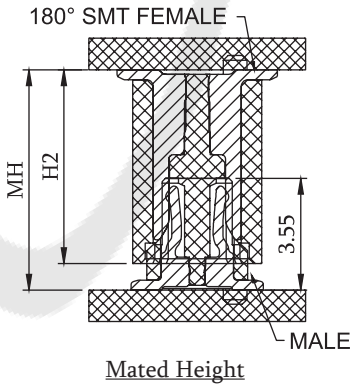


Recommended PCB Layout
(PCB TOLERANCE ±0.05)





No. of Contacts	Dimensions			
	A	B	C	D
10	3.20	4.90	5.80	5.00
12	4.00	5.70	6.60	5.80
14	4.80	6.50	7.40	6.60
16	5.60	7.30	8.20	7.40
18	6.40	8.10	9.00	8.20
20	7.20	8.90	9.80	9.00
22	8.00	9.70	10.60	9.80
24	8.80	10.50	11.40	10.60
26	9.60	11.30	12.20	11.40
28	10.40	12.10	13.00	12.20
30	11.20	12.90	13.80	13.00
32	12.00	13.70	14.60	13.80
34	12.80	14.50	15.40	14.60
36	13.60	15.30	16.20	15.40
38	14.40	16.10	17.00	16.20
40	15.20	16.90	17.80	17.00



Mated Height

180°

NO.		Plastic Height	
Male P/N	Female P/N	Female(H2)	Mated Height (M/H)
5BB08BC36M-XXXXUR-01	5BB08BC36F-XXXXUR-01	3.65	4.50
	5BB08BC41F-XXXXUR-01	4.15	5.00
	5BB08BC47F-XXXXUR-01	4.70	5.65
	5BB08BC51F-XXXXUR-01	5.15	6.00
	5BB08BC56F-XXXXUR-01	5.65	6.50
	5BB08BC61F-XXXXUR-01	6.15	7.00

ORDER INFORMATION

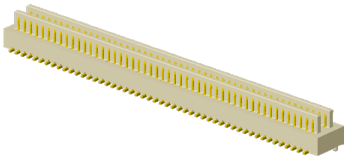
5	B	B	0	8	B	C	X	X	F	-	X	X	X	X	U	R	-	0	1
			08:Pitch 0.8		Type		Plastic Height 36: H2=3.65mm 41: H2=4.15mm 47: H2=4.70mm 51: H2=5.15mm 56: H2=5.65mm 61: H2=6.15mm		F:Female		No. of Contacts 10~40		G3:Au 3u" GA:Au 5u" GB:Au 10u"		U:RoHS + Hi-Temp	R:T/R with Cap			

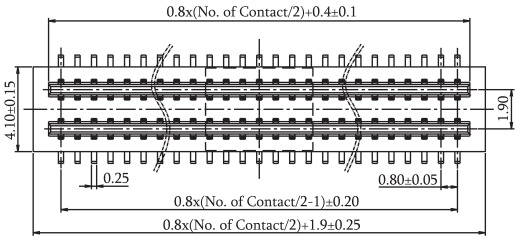
◎:Standard Recommended

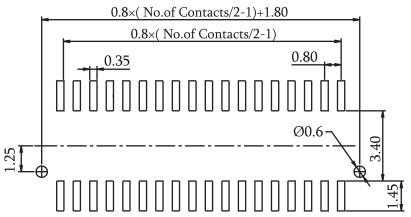
Board To Board 0.8mm Male H=1.0/1.5/2.0/3.0/4.0mm

Specifications
Current Rating: 0.5 AMP
Insulation Resistance: 100MΩ Min.
Contact Resistance: 50mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -20 C to +105 C

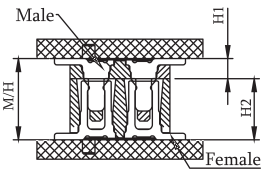
Material
Insulator: Nylon 9T, UL 94V-0, Natural
Contact Pin: Phosphor Bronze
Cap:LCP, UL 94V-0



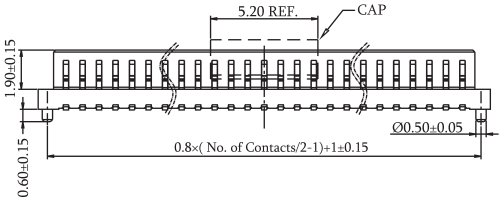


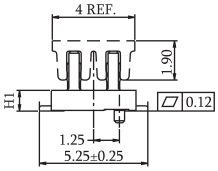


Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

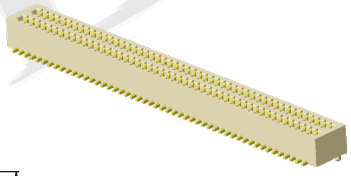


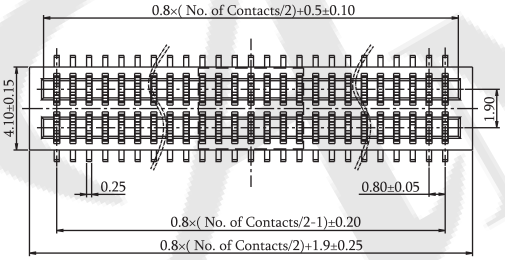


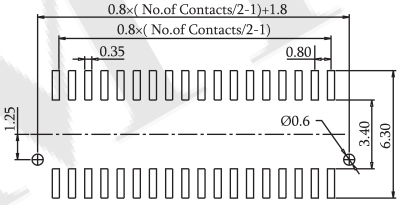
Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	
5.5	1.5	4.0
6.0	2.0	
6.5		4.5
7.0	3.0	4.0
7.5	3.0	4.5
8.0	4.0	4.0

P/N.:5BB082CXXM

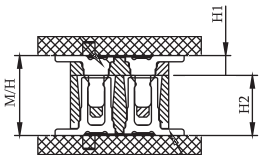
Board To Board 0.8mm Female H=3.0/4.0/4.5mm



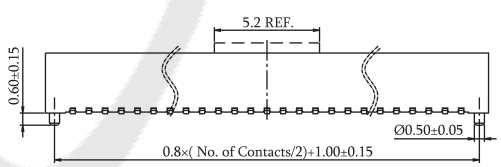


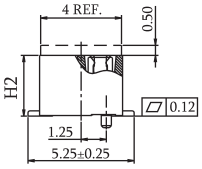


Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height





Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	
5.5	1.5	4.0
6.0	2.0	
6.5		4.5
7.0	3.0	4.0
7.5	3.0	4.5
8.0	4.0	4.0

P/N.:5BB082CXXF

ORDER INFORMATION

5	B	B	0	8		2	C		X	X		X	-		X	X		X	X		U		X	-		0	1
				08:Pitch 0.8			Type					M:Male F:Female			No. of Contacts 10, 20, 30, 40, 50, 80, 100(A1)						U:RoHS + Hi-Temp							

Male Plastic Height	Female Plastic Height
10: H1=1.0mm	30: H2=3.0mm
15: H1=1.5mm	40: H2=4.0mm
20: H1=2.0mm	45: H2=4.5mm
30: H1=3.0mm	
40: H1=4.0mm	

G3:Au 3u"	S3:Selective Au 3u"
GA:Au 5u"	SA:Selective Au 5u"

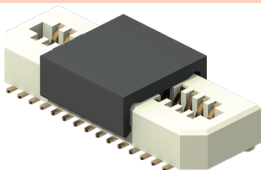
R:T/R With Cap

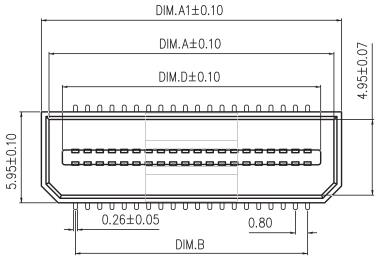
◎:Standard Recommended

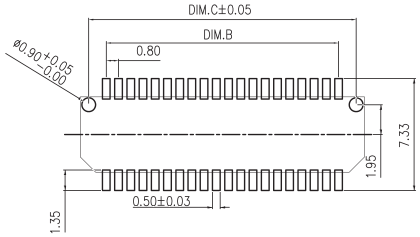
Board To Board 0.8mm Male H=2.72/3.72/4.72/10.14/11.14mm

Specifications
Current Rating: 0.5A
Contact Resistance: 60mΩ Max.
Insulator Resistance: 1000MΩ Min.
Dielectric Voltage: 250V AC for one minute
Operating Temperature: -40°C to +85°C
Voltage Rating: 60V AC / DC

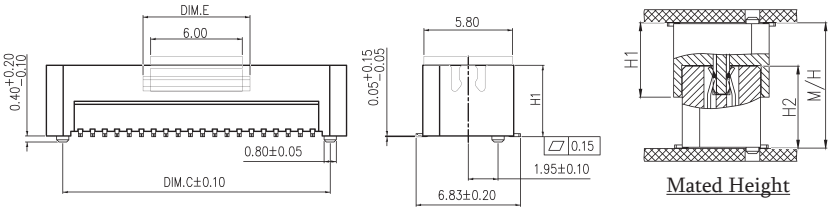
Material
Housing: Nylon 9T, UL 94V-0, Natural
Contacts: Phosphor Bronze







Recommended PCB Layout
(PCB TOLERANCE ±0.05)



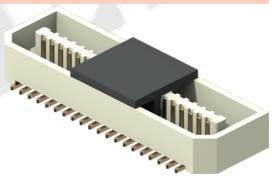
Mated Height

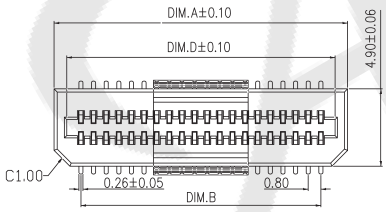
No. of Contacts	Dim.A1	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
14	9.25	8.25	4.80	7.10	6.50	5.50
16	10.05	9.05	5.60	7.90	7.30	
20	11.65	10.65	7.20	9.50	8.90	8.00
22	12.45	11.45	8.00	10.30	9.70	
24	13.25	12.25	8.80	11.10	10.50	
26	14.05	13.05	9.60	11.90	11.30	
30	15.65	14.65	11.20	13.50	12.90	10.00
34	17.25	16.25	12.80	15.10	14.50	
40	19.65	18.65	15.20	17.50	16.90	
50	25.85	23.45	19.20	21.50	20.90	16.00
60	29.85	27.45	23.20	25.50	24.90	
64	31.45	29.05	24.80	27.10	26.50	
80	37.85	35.45	31.20	33.50	32.90	20.00
100(A1)	45.85	43.45	39.20	41.50	40.90	

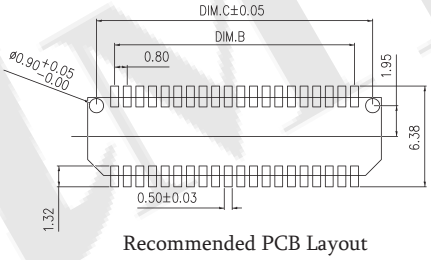
Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
3.0	2.72	2.2
3.5		2.7
4.0	3.72	2.2
4.5		2.7
5.0	4.72	2.2
5.5		2.7
6.0	2.72	5.2
7.0	3.72	
8.0	4.72	
13.0	10.14	
14.0	11.14	

P/N.:5BB089CXXM

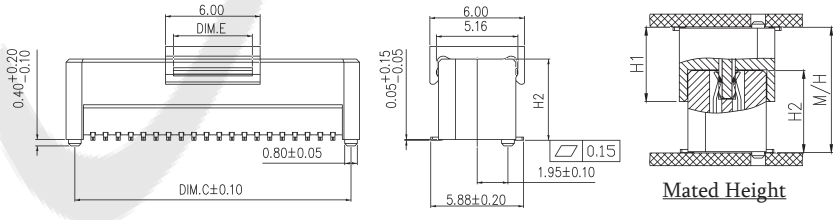
Board To Board 0.8mm Female H=2.7/5.2mm







Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
14	8.20	4.80	7.10	6.60	2.00
16	9.00	5.60	7.90	7.40	
20	10.60	7.20	9.50	9.00	2.50
22	11.40	8.00	10.30	9.80	
24	12.20	8.80	11.10	10.60	
26	13.00	9.60	11.90	11.40	
30	14.60	11.20	13.50	13.00	3.00
34	16.20	12.80	15.10	14.60	
40	18.60	15.20	17.50	17.00	
50	23.40	19.20	21.50	21.00	5.00
60	27.40	23.20	25.50	25.00	
64	29.00	24.80	27.10	26.60	
80	35.40	31.20	33.50	33.00	6.50
100(A1)	43.40	39.20	41.50	41.00	

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
3.0	2.72	2.2
3.5		2.7
4.0	3.72	2.2
4.5		2.7
5.0	4.72	2.2
5.5		2.7
6.0	2.72	5.2
7.0	3.72	
8.0	4.72	
13.0	10.14	
14.0	11.14	

P/N.:5BB089CXXF

ORDER INFORMATION

5 B B 0 8 — 9 C — X X — X — X X — X X — U — R - 0 1

- 08:Pitch 0.8
- Type
- X X:

Male Plastic Height	Female Plastic Height
27: H1=2.72mm	27: H2=2.7mm
37: H1=3.72mm	52: H2=5.2mm
47: H1=4.72mm	
1C: H1=10.14mm	
2C: H1=11.14mm	

- X: M:Male, F:Female
- X X: No. of Contacts: 14, 16, 20~30, 34, 40, 50, 60, 64, 80, 100(A1)
- X X:

G3:Au 3u"	S3:Selective Au 3u"
GA:Au 5u"	SA:Selective Au 5u"

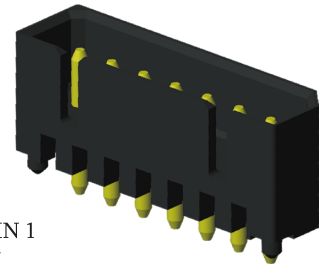
- U: U:RoHS + Hi-Temp
- R - 0 1: R:T/R With Cap

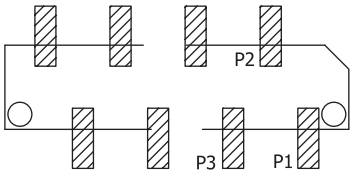
◎:Standard Recommended

Board To Board 1.25mm Male H=3.95/5.95mm

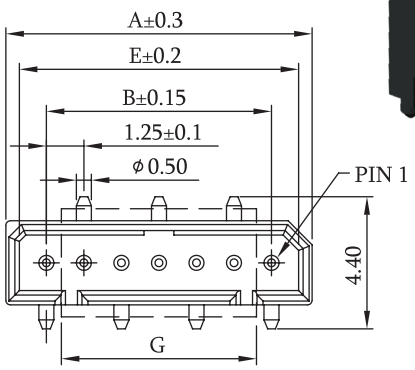
Specifications
Current Rating: 0.5 AMP
Insulation Resistance: 500MΩ Min.
Contact Resistance: 20mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -40°C to +105°C

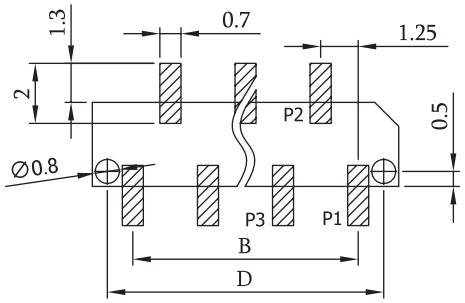
Material
Insulator: Nylon 9T. Thermoplastic, UL 94V-0, Black
Contact Pin: Brass





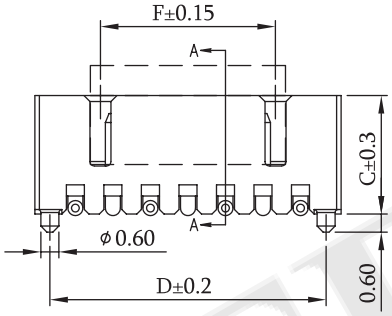
EVEN PINS

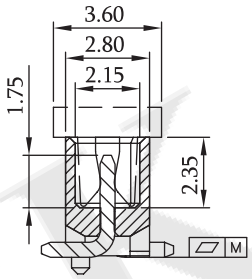




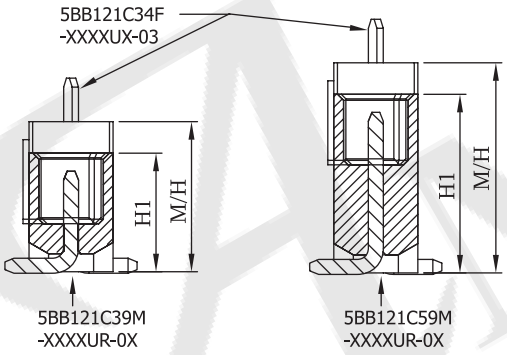
ODD PINS

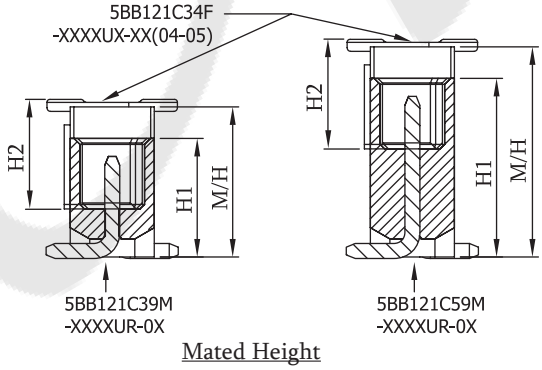
Recommended PCB Layout
(PCB TOLERANCE ±0.05)





SECTION A-A





Mated Height

Pin	Dim.G
4-5	3.8
6-20	6.5

No. of Contacts	Dimensions					
	A	B	C	D	E	F
04	6.45	3.75	3.95 5.95	5.45	5.85	2.08
05	7.70	5.00		6.70	7.10	3.33
06	8.95	6.25		7.95	8.35	4.58
07	10.20	7.50		9.20	9.60	5.83
08	11.45	8.75		10.45	10.85	7.08
10	13.95	11.25		12.95	13.35	9.58
17	22.70	20.00		21.70	22.10	18.33
20	26.45	23.75		25.45	25.85	22.08

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
5.0	3.95	3.4
7.0	5.95	

ORDER INFORMATION

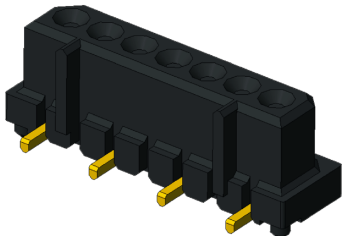
5 B B 1 2 — 12:Pitch 1.25
1 C — Type
X X — Dim. of C: 39: H1=3.95mm; 59: H1=5.95mm
M - — M:Male
X X — No. of Contacts: 04, 05, 06, 07, 08, 10, 17, 20
X X — G0:Gold Flash; GB:Au 10u"; GF:Au 15u"; GD:Au 30u"; T0:Tin Plated
U — U:RoHS + Hi-Temp
R - — R:T/R With Cap
0 X — 01:W/O Peg; 02:With Peg

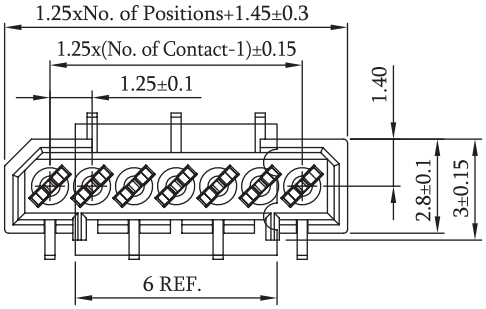
◎:Standard Recommended

Board To Board 1.25mm Female H=3.4mm

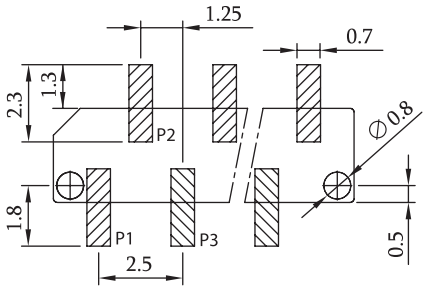
Specifications
Current Rating: 0.5A
Contact Resistance: 20mΩ Max.
Insulation Resistance: 500MΩ Min.
Dielectric Voltage: 500V AC for one minute
Operating Temperature: -40°C to +105°C

Material
Insulator: Nylon 9T+33% G.F., UL94V-0, Black
Contact Pin: Phosphor Bronze
Cap of 8 &10 Pin: Plastic
Cap of other Pin: Metal

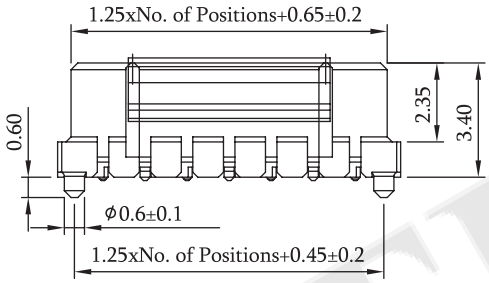


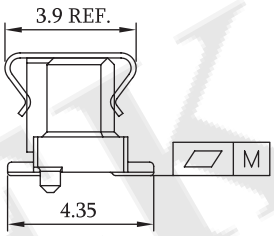


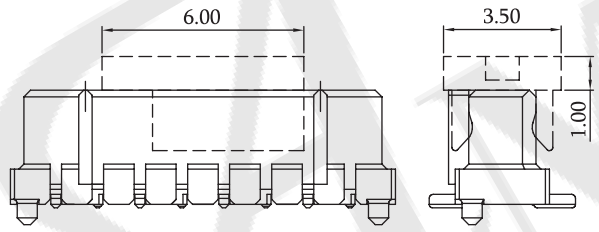
Pin	4-10 P	11-20 P
M	0.10	0.15



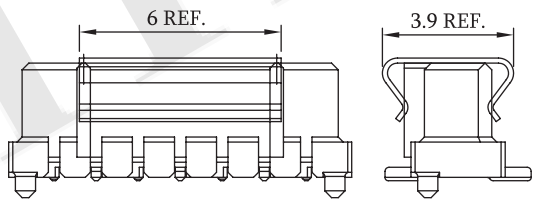
Recommended PCB Layout
(PCB TOLERANCE ±0.05)



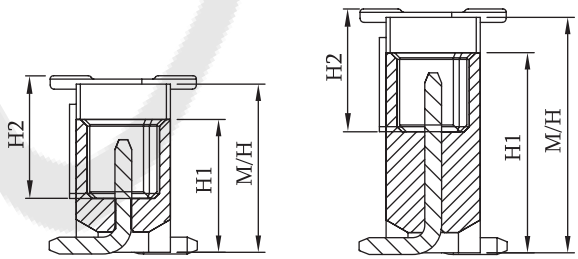




CAP OF 8 &10 PIN



CAP OF OTHER PIN



Mated Height

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
5.0	3.95	3.4
7.0	5.95	

ORDER INFORMATION

5 B B 1 2 1 C 3 4 F - X X X X U R - X X

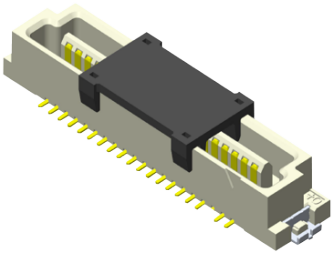
- Plastic Height: 34: H2=3.4mm
- F:Female
- No. of Contacts: 04, 05, 06, 07, 08, 10, 17, 20
- G0:Gold Flash; GB:10u"; GD:30u"; T0:Tin Plated
- RoHS
- R:T/R With Cap
- 04: SMT 180°, With Peg; 05: SMT 180°, W/O Peg

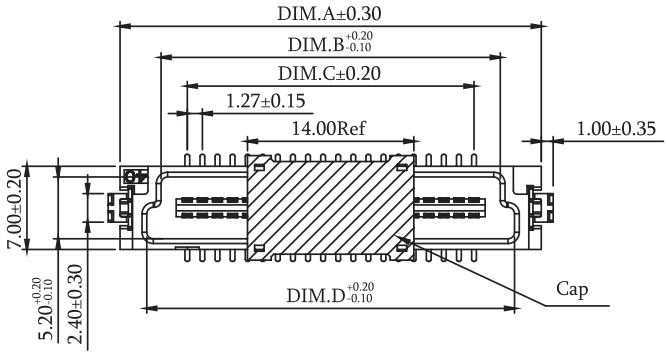
◎:Standard Recommended

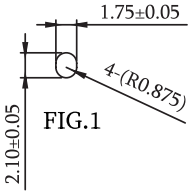
Board To Board 1.27mm Male H=5.9/9.5/14.8mm SMT 180°

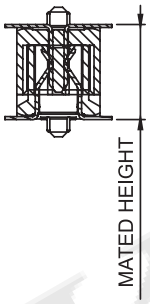
Specifications
Current Rating: 0.5 AMP
Insulation Resistance: 100MΩ Min.
Contact Resistance: Initial:45 mΩ(Max) After: 55 mΩ(Max)
Withstand Voltage: 125V AC
Operation Temperature: -55°C to +85°C

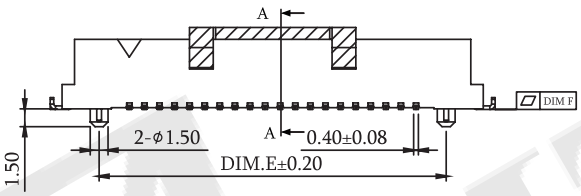
Material
Insulator: PPS UL94 V-0, Natural
Contact Pin: Brass
Holddown: Brass

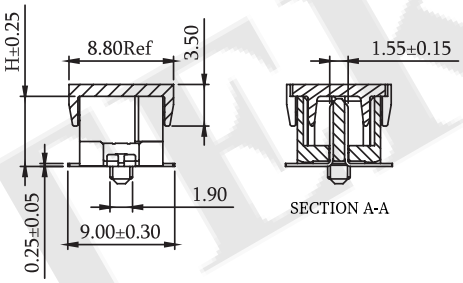




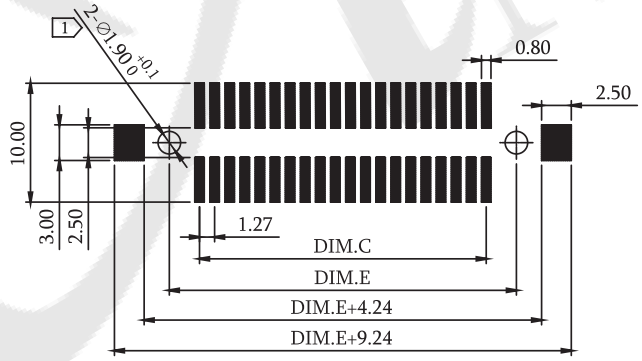








Pin	Dim.F
20, 40	0.10
52, 60	0.12
80, 100	0.15



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

No. of Contacts	Dimensions				
	A	B	C	D	E
20	22.75	15.85	11.43	18.25	16.51
40	35.45	28.55	24.13	30.95	29.21
52	43.07	36.17	31.75	38.57	36.83
60	48.15	41.25	36.83	43.65	41.91
80	60.85	53.95	49.53	56.35	54.61
100(A1)	73.55	66.65	62.23	69.05	67.31

Dimensions(mm)		
Female P/N	Male P/N	Mated Height
5BB132E63F-XXXXUX-01	5BB132E59F-XXXXUX-01	8.0
5BB132E97F-XXXXUX-01	5BB132E95F-XXXXUX-01	13.2
	5BB132E8BF-XXXXUX-01	18.5

ORDER INFORMATION

5	B	B	1	3		2	E		X	X		M	-		X	X		S	A		U		R	-	0	1
				13:Pitch 1.27			Type		Plastic Height 59: H1= 5.9mm 95: H1= 9.5mm 8B: H1= 14.8mm			M:Male			No. of Contacts 20, 40, 52, 60, 80, 100(A1)				SA:Selective Au 5u"			U:RoHS + PPS			R:T/R With Cap		

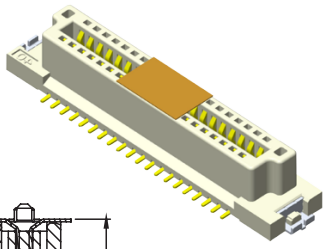
◎:Standard Recommended

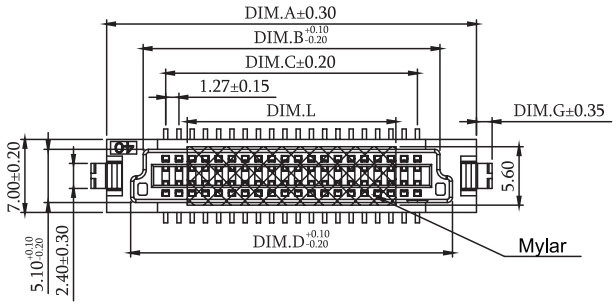
RoHS

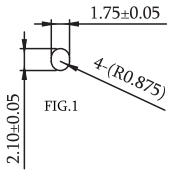
Board To Board 1.27mm Female H=6.25/9.7mm SMT 180°

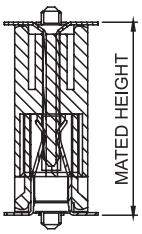
Specifications
Current Rating: 0.5 AMP
Insulation Resistance: 100MΩ Min.
Contact Resistance: Initial:45 mΩ(Max) After: 55 mΩ(Max)
Withstand Voltage: 125V AC
Operation Temperature: -55°C to +85°C

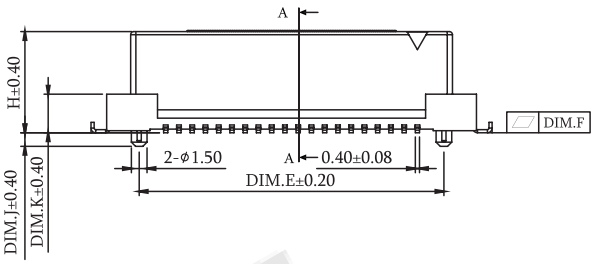
Material
Insulator: PPS UL94 V-0, Natural
Contact Pin: Phosphor Bronze
Holddown: Brass

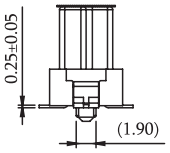


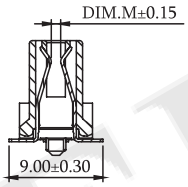




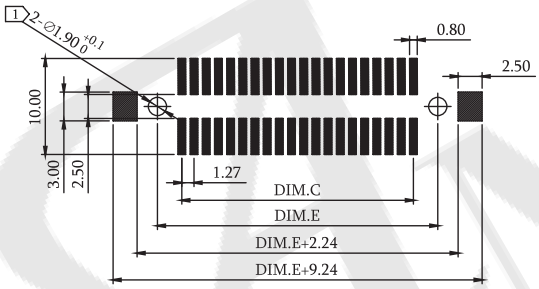




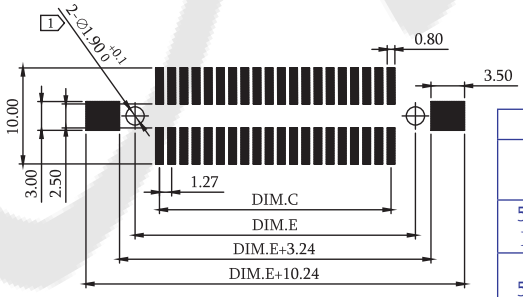




SECTION A-A



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Pin	Dim.F
20, 40	0.10
52, 60	0.12
80, 100	0.15

Mylar	Dim.L
20	10
20-100	20

No. of Contacts	Dimensions				
	A	B	C	D	E
20	22.75	15.75	11.43	18.15	16.51
40	35.45	28.45	24.13	30.85	29.21
52	43.07	36.07	31.75	38.47	36.83
60	48.15	41.25	36.83	43.55	41.91
80	60.85	53.85	49.53	56.25	54.61
100(A1)	73.55	66.55	62.23	68.05	67.31

Dimensions(mm)						
Female P/N	DIM. G	DIM. J	DIM. K	DIM. M	Male P/N	Mated Height
5BB132E63F-XXXXUX-01	1.00	1.00	1.00	1.00	5BB132E59F-XXXXUX-01	8.0
5BB132E97F-XXXXUX-01	1.50	1.50	1.50	1.50	5BB132E95F-XXXXUX-01	13.2
					5BB132E8BF-XXXXUX-01	18.5

ORDER INFORMATION

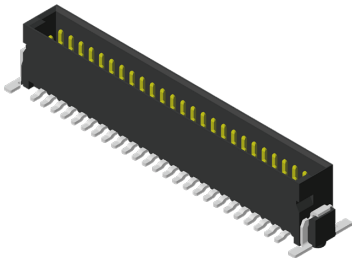
5	B	B	1	3		2	E		X	X		F	-		X	X		S	A		U		M	-	0	1
			13:Pitch 1.27			Type			Plastic Height 63: H2=6.25mm 97: H2=9.70mm			F:Female			No. of Contacts 20, 40, 52, 60, 80, 100(A1)			SA:Selective Au 5u"			U:RoHS + PPS			M:T/R With Mylar		

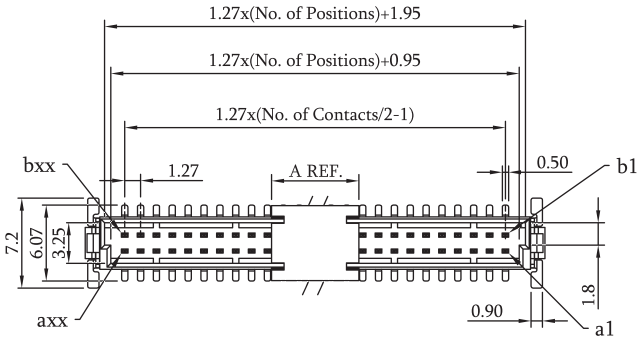
◎:Standard Recommended

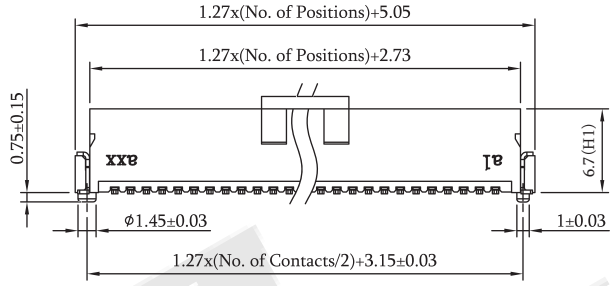
SMC Board To Board 1.27mm Male H=6.7mm

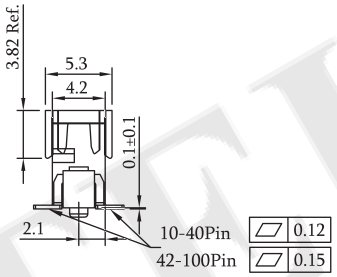
Specifications
Current Rating: 0.5 to 1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55˚C to +125˚C

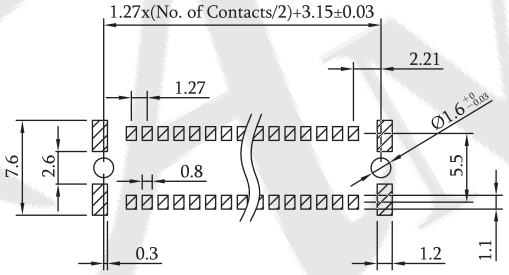
Material
Insulator: LCP, UL94V-0, Black
Contact Pin: Phosphor Bronze



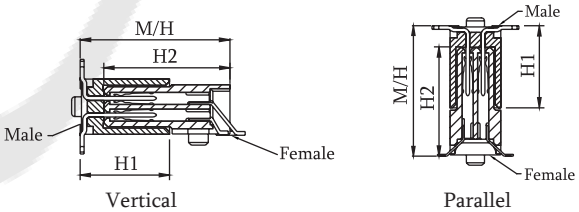








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Dim.A
10-24	7
26-100	16

Vertical

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
11.4	6.7	9.6

Parallel

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.00	6.7	6.2
10.80		9.0
15.45		13.6

ORDER INFORMATION

5	B	B	1	3	S	C	6	7	M	-	X	X	X	X	U	R	-	0	1

- 13:Pitch 1.27
- Type
- Plastic Height: 67: H1=6.7mm
- M:Male
- No. of Contacts: 10-100(A1)
- SB:Selective Au 10u"
- SF:Selective Au 15u"
- SD:Selective Au 30u"
- U:RoHS + LCP
- R:T/R With Cap

◎:Standard Recommended

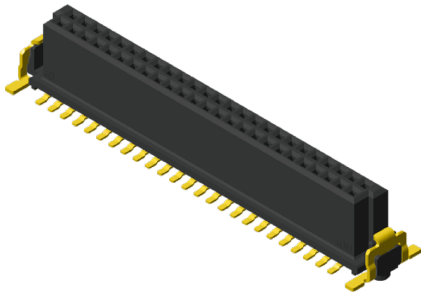
AMTEK CONNECTORS MANUFACTURER
Board To Board 1.27mm
FOFS

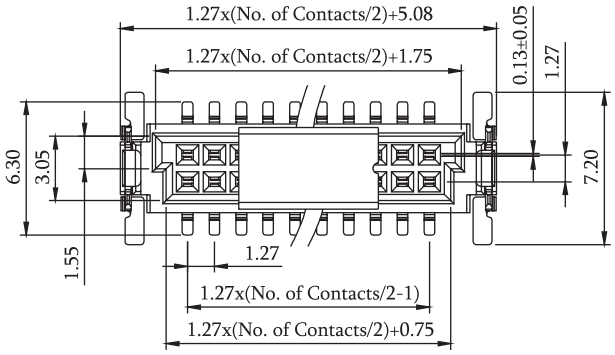
RoHS

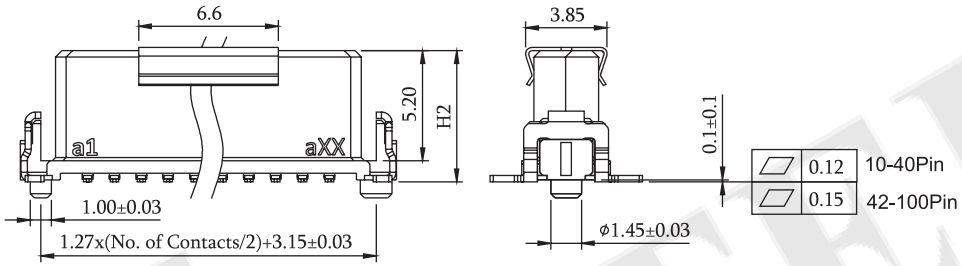
SMC Board To Board 1.27mm Female H=6.2/9.0/13.65mm

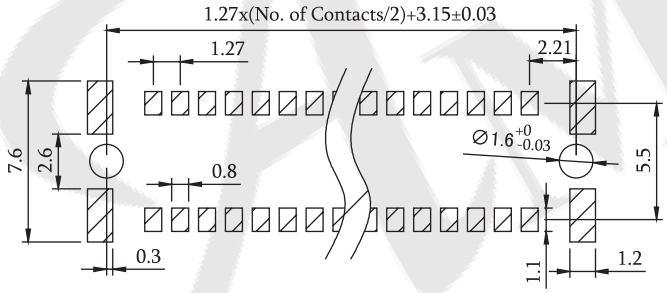
Specifications
Current Rating: 0.5 to 1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55˚C to +125˚C

Material
Insulator: LCP, UL94V-0, Black
Contact Pin: Copper Alloy

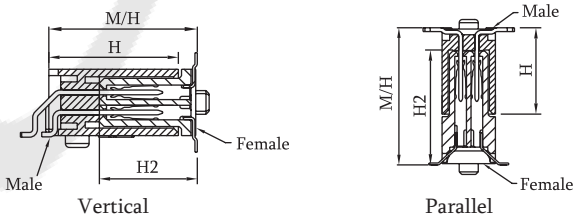








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Rated Current
<30P	2.16A
30-50P	1.80A
>50P	1.44A

Vertical

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
9.40	8.20	6.20
12.20		9.00
16.85		13.65

Parallel

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
8.00	6.70	6.20
9.50	8.20	
11.10	9.90	
10.80	6.70	9.00
12.30	8.20	
13.90	9.90	
15.45	6.70	13.65
16.95	8.20	
18.60	9.90	

ORDER INFORMATION

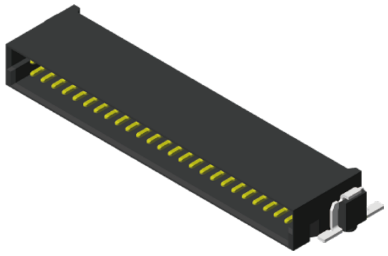
5	B	B	1	3	S	C	X	X	F	-	X	X	X	X	U	R	-	0	1
			13:Pitch 1.27		Type		Plastic Height 62: H2=6.2mm 90: H2=9.0mm 6A: H2=13.65mm		F:Female		No. of Contacts 10-100(A1)		SB:Selective Au 10u" SF:Selective Au 15u" SD:Selective Au 30u"		U:RoHS + LCP	R:T/R With Cap			

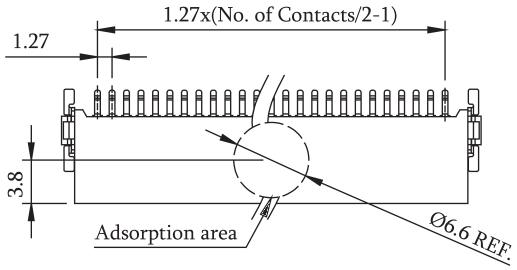
◎:Standard Recommended

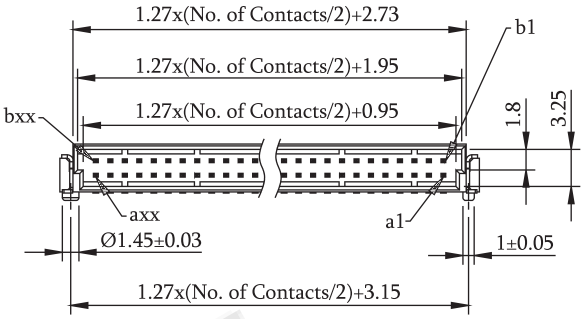
SMC Board To Board 1.27mm Male SMT R/A H=8.2mm

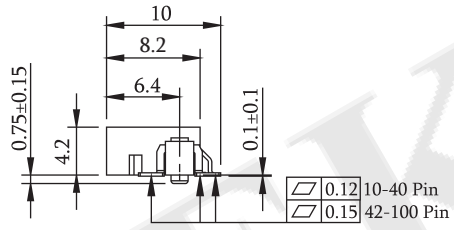
Specifications
Current Rating: 0.5 to 1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55°C to +125°C

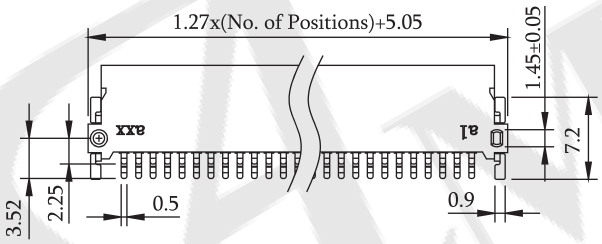
Material
Insulator: LCP, UL 94V-0, Black
Contact Pin: Phosphor Bronze

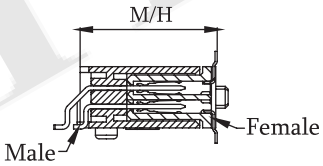


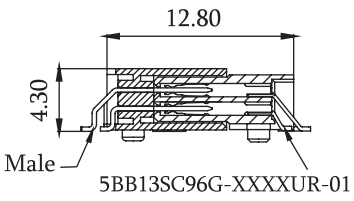




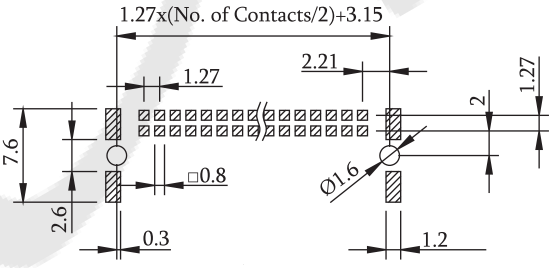








Mated Height



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Male P/N	Female P/N	Mated Height (M/H)
5BB13SC82P-XXXXUH-01	5BB13SC62F-XXXXUH-01	9.40
	5BB13SC90F-XXXXUH-01	12.20
	5BB13SC96G-XXXXUH-01	12.80
	5BB13SC6AF-XXXXUH-01	16.85

ORDER INFORMATION

5	B	B	1	3		S	C		8	2		P	-		X	X		X	X		U		H	-	0	1
			13:Pitch 1.27			Type			Plastic Height 82: H1=8.2mm			P:Male SMT 90°			No. of Contacts 10-100(A1)			SB:Selective Au 10u" SF:Selective Au 15u" SD:Selective Au 30u"			U:RoHS			H:T/R W/O Cap		

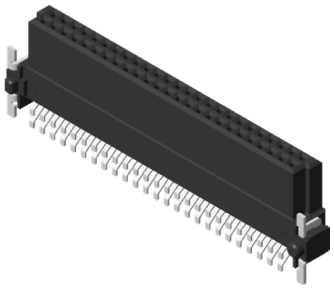
◎:Standard Recommended

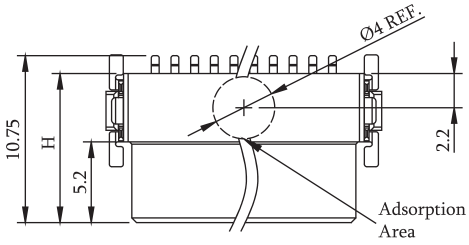
RoHS

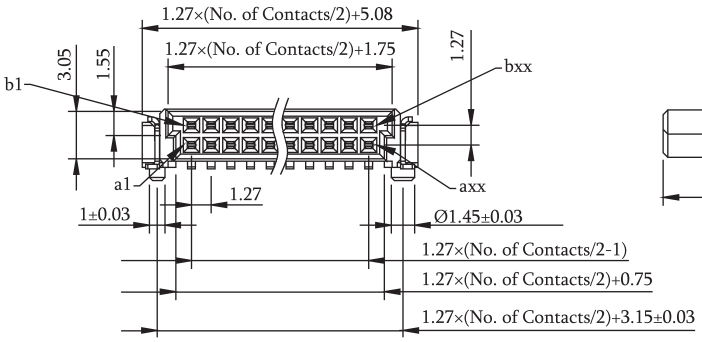
SMC Board To Board 1.27mm Female SMT R/A H=9.6mm

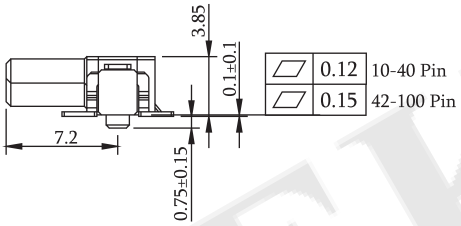
Specifications
Current Rating: 0.5 to 1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55°C to +125°C

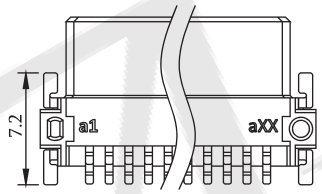
Material
Insulator: LCP, UL94V-0, Black
Contact Pin: Phosphor Bronze

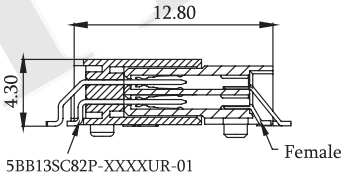


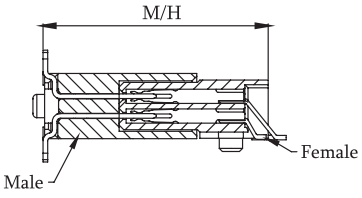




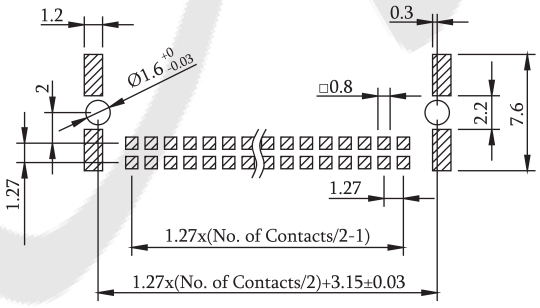








Mated Height



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Female P/N	Male P/N	Mated Height (M/H)
5BB13SC96G-XXXXUH-01	5BB13SC67M-XXXXUH-01	11.4
	5BB13SC82P-XXXXUH-01	12.8
	5BB13SC82M-XXXXUH-01	12.9
	5BB13SC99M-XXXXUH-01	14.5

ORDER INFORMATION

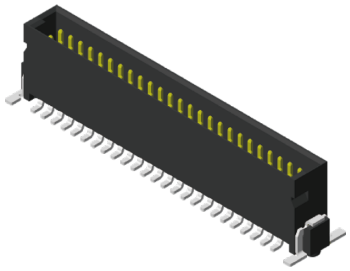
5	B	B	1	3		S	C		9	6		G	-		X	X		X	X		U		H	-	0	1
			13:Pitch 1.27			Type			Plastic Height 96: H2=9.6mm			G: Female SMT 90°			No. of Contacts 10-100(A1), A1=100			SB:Selective Au 10u" SF:Selective Au 15u" SD:Selective Au 30u"			U:RoHS + LCP			H:T/R W/O Cap			

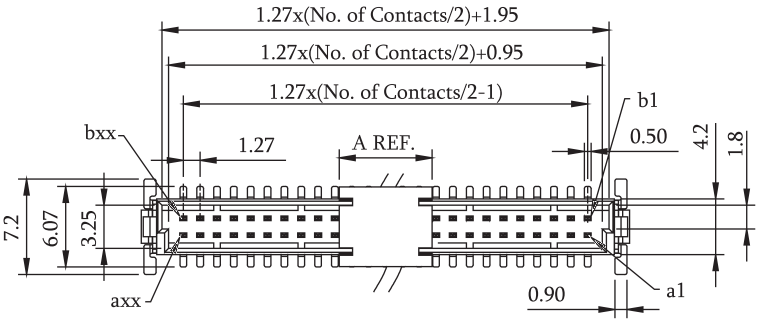
◎:Standard Recommended

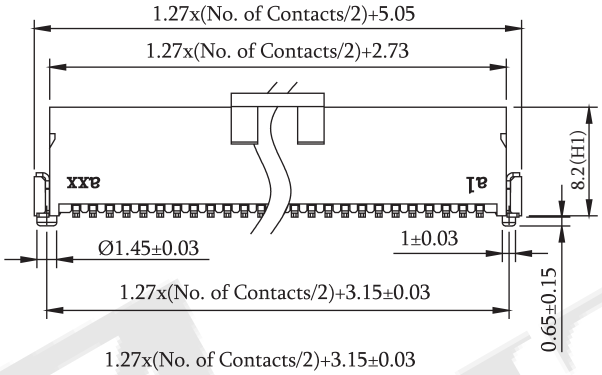
SMC Board To Board 1.27mm Male H=8.2mm

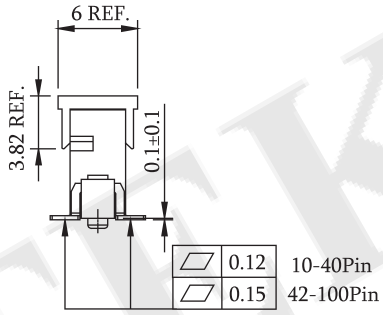
Specifications
Current Rating: 0.5 to 1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55˚C to +125˚C

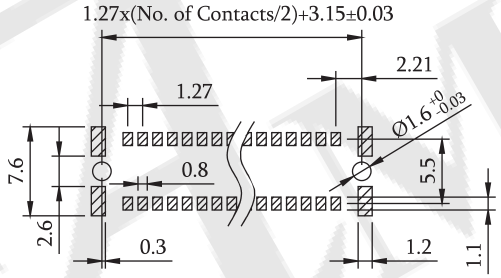
Material
Insulator: LCP, UL94V-0, Black
Contact Pin: Phosphor Bronze



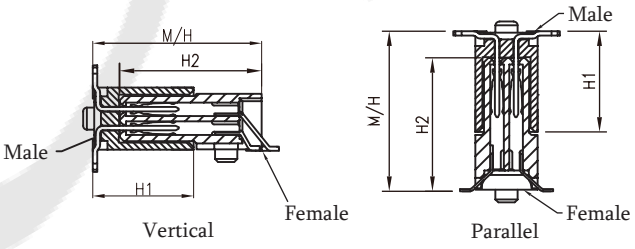








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Mated Height

No. of Contacts	Dim.A
10-24	7
26-100	16

Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
12.9	8.2	9.6

Parallel

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
9.50	8.2	6.2
12.30		9.0
16.95		13.6

ORDER INFORMATION

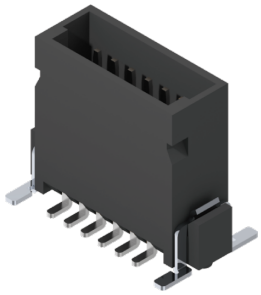
5 B B 1 3 — 13:Pitch 1.27
S C — Type
8 2 — Plastic Height; 82: H1=8.2mm
M - — M:Male
X X — No. of Contacts; 10-100(A1)
X X — SB:Selective Au 10u"; SF:Selective Au 15u"; SD:Selective Au 30u"
U — U:RoHS + LCP
R - 0 1 — R:T/R With Cap

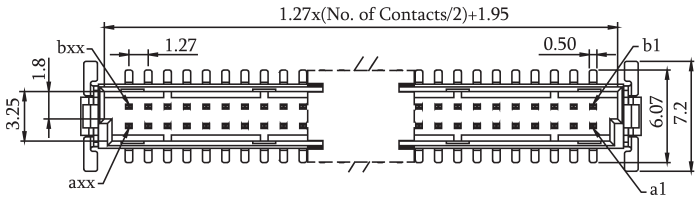
◎:Standard Recommended

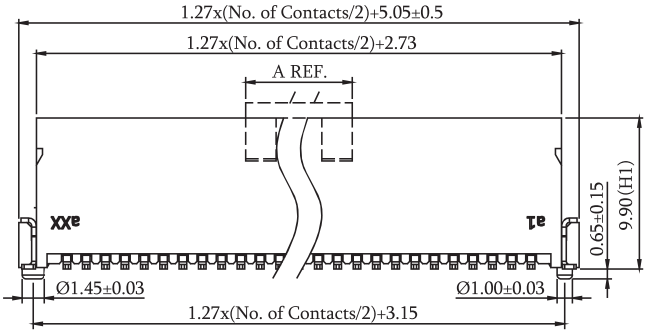
SMC Board To Board 1.27mm Male H=9.9mm

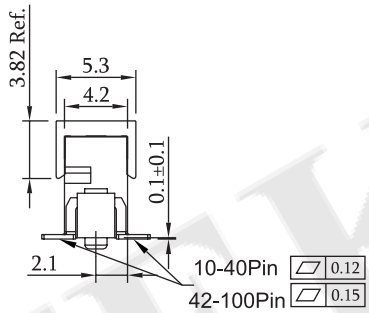
Specifications
Current Rating: 0.5-1.0 AMP
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55°C to +125°C

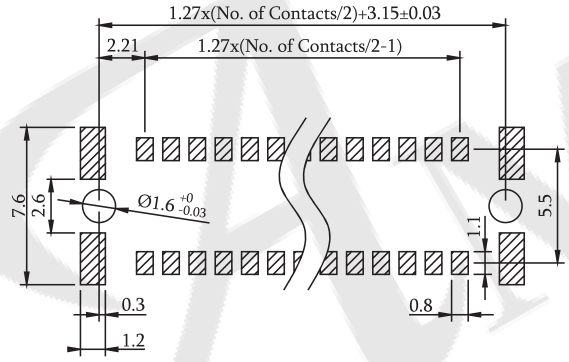
Material
Insulator: LCP, UL94V-0, Black
Contact Pin: Phosphor Bronze



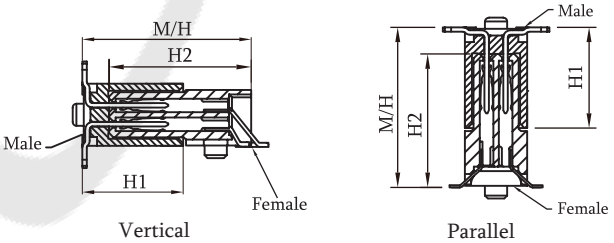








Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Vertical Parallel

Mated Height

No. of Contacts	Dim.A
10-24	7
26-100	16

Vertical

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
14.5	9.9	9.6

Parallel

Mated Height (M/H)	Plastic Height	
	Male(H1)	Female(H2)
11.1	9.9	6.2
13.9		9.0
18.6		13.6

ORDER INFORMATION

5	B	B	1	3	S	C	9	9	M	-	X	X	X	X	U	R	-	0	1
			13:Pitch 1.27		Type		Plastic Height 99: H1=9.9mm		M:Male SMT 180°		No. of Contacts 10-100(A1), A1=100		SB:Selective Au 10u" SF:Selective Au 15u" SD:Selective Au 30u"		U:RoHS + LCP	R:T/R With Cap			

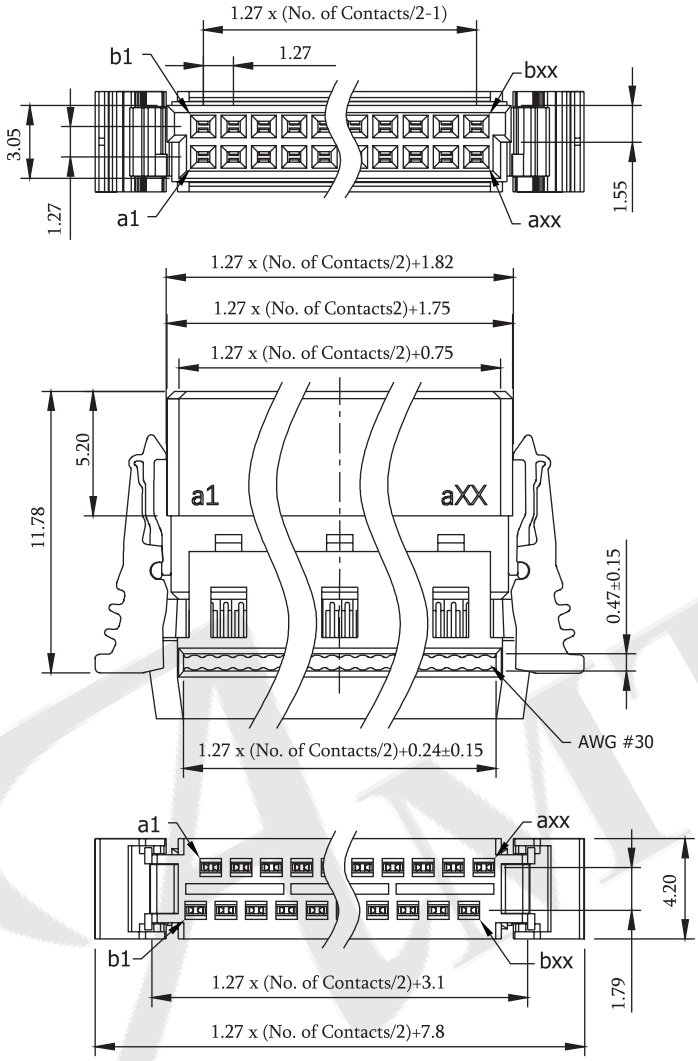
◎:Standard Recommended

SMC Board To Board 1.27mm Male H=13.6mm

Specifications
Current Rating: See the Table
Insulation Resistance: 10000MΩ Min.
Contact Resistance: 25mΩ Max.
Dielectric Voltage: 500V AC for one minute
Operation Temperature: -55˚C to +125˚C

Material
Insulator: LCP, UL 94V-0, Black
Contact Pin: See the Table





TABLE

Female P/N	Terminal Material	No. of Contacts	Rated Current
5BB13SCXXI-XXXXUX-01	Phosphor Bronze	<30P	2.16A
		30-50P	1.80A
		>50P	1.44A
5BB13SCXXI-XXXXUX-02	Copper Nickel Silicon Alloy	<30P	3.36A
		30-50P	2.80A
		>50P	2.24A

ORDER INFORMATION

5	B	B	1	3		S	C	3	B		I	-		X	X		X	X		U		A	-	0	1
				13:Pitch 1.27				Type			I: IDC Type			No. of Contacts 08-100(A1), A1=100			SB:Selective Au 10u" SF:Selective Au 15u" SD:Selective Au 30u"				U:RoHS + LCP		A:Tray		0	2
																									See Table

◎:Standard Recommended

AMTEK
AMTEK CONNECTORS MANUFACTURE

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