

Board To Board Connectors

1-1 ~ 1-2

• Board To Board 0.4mm

1-3 ~ 1-4

• Board To Board 0.5mm

1-5 ~ 1-6

• Board To Board 0.635mm

1-7 ~ 1-16

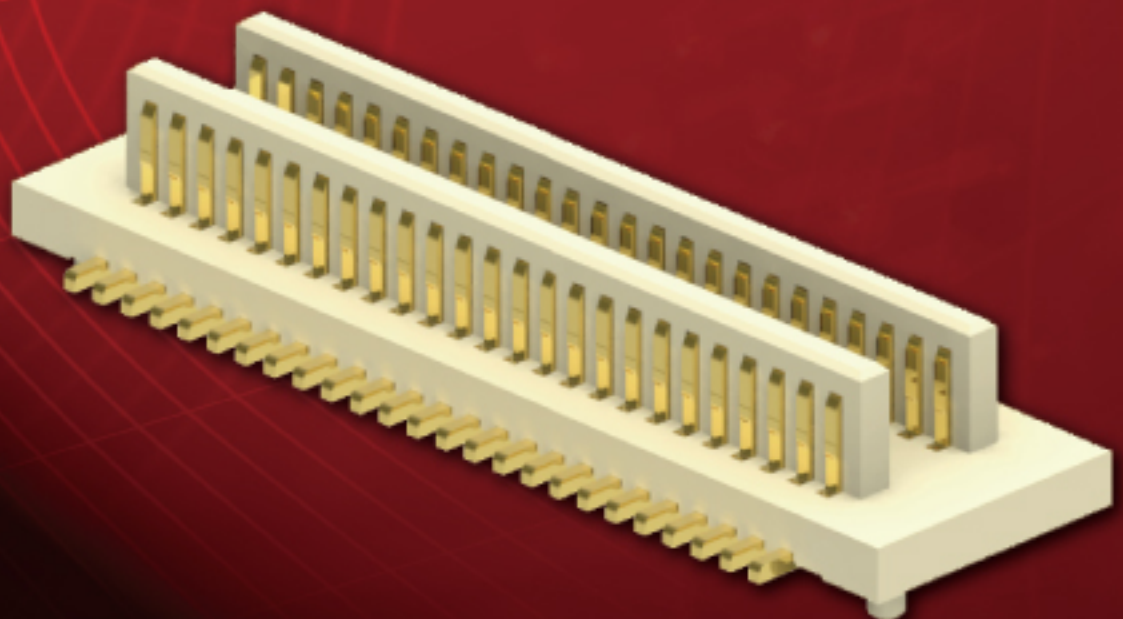
• Board To Board 0.8mm

1-17 ~ 1-18

• Board To Board 1.25mm

1-19 ~ 1-25

• Board To Board 1.27mm





CONNECTORS MANUFACTURE

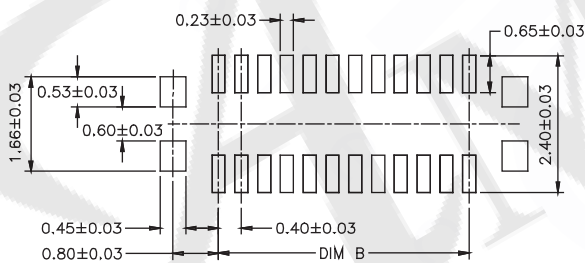
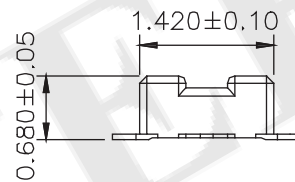
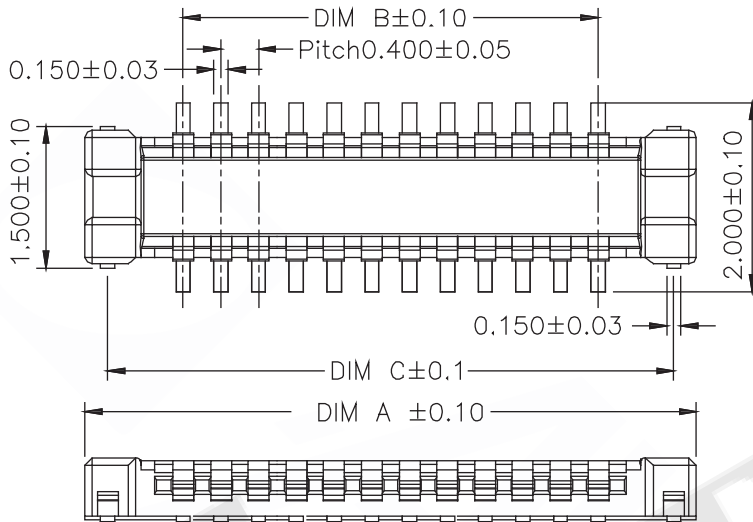
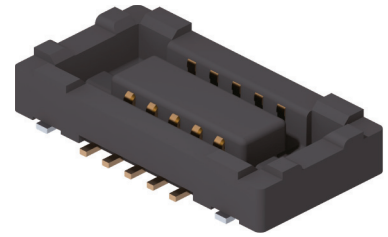
Board To Board 0.4mm Male H=0.68mm

Specifications

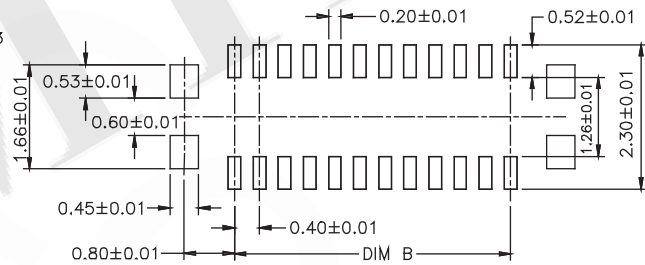
Current Rating: 0.3A
 Voltage Rating: 60V AC/DC
 Operating Temperature: -55°C ~ +85°C
 Durability: 30 cycles
 Contact Resistance: 90mΩ
 Insulation Resistance: 100MΩ

Material

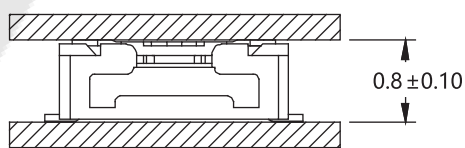
Housing: Hi-Temp Thermoplastic, UL94V-0, Black
 Contact Pin: Copper Alloy



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



RECOMMENDED METAL MASK LAYOUT (NO PATTERNS) t=0.08mm

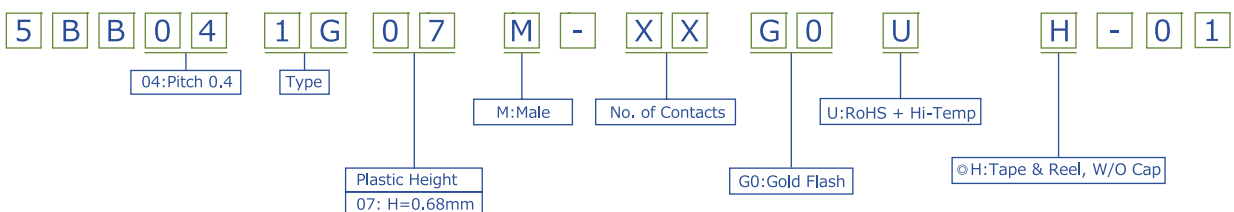


MATED CONDITION

Table

No. of contacts	Dimensions		
	A	B	C
10	3.68	1.60	3.20
24	6.48	4.40	6.00
30	7.68	5.60	7.20
40	9.68	7.60	9.20
50	11.68	9.60	11.20

ORDER INFORMATION



⊙: Standard Recommended

Board To Board 0.4mm



RoHS

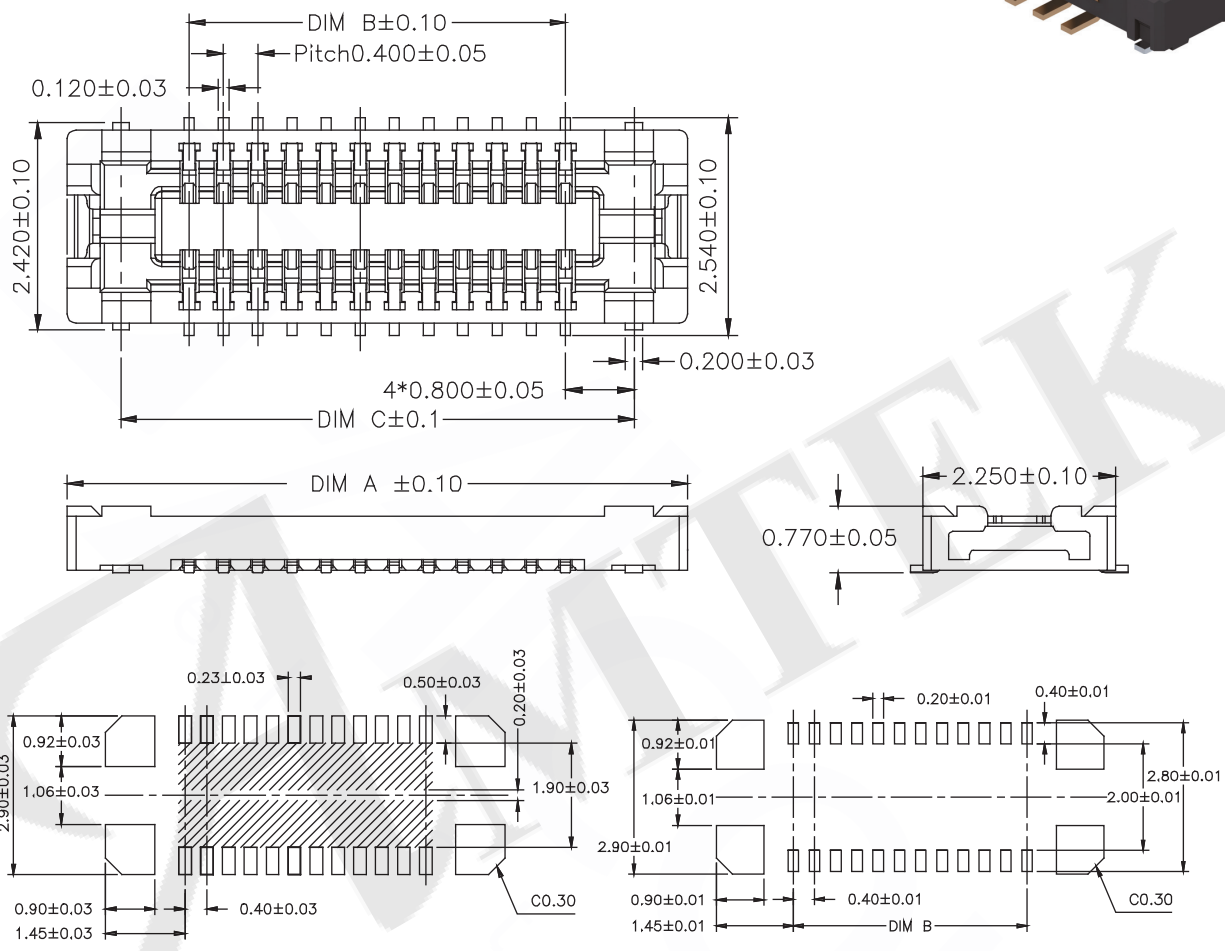
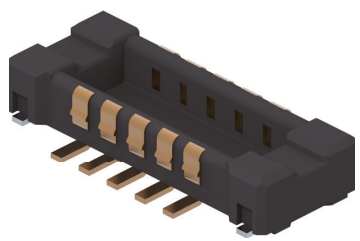
Board To Board 0.4mm Female H=0.77mm

Specifications

Current Rating: 0.3A
 Voltage Rating: 60V AC/DC
 Operating Temperature: -55°C ~ +85°C
 Durability: 30 cycles
 Contact Resistance: 90mΩ
 Insulation Resistance: 100MΩ

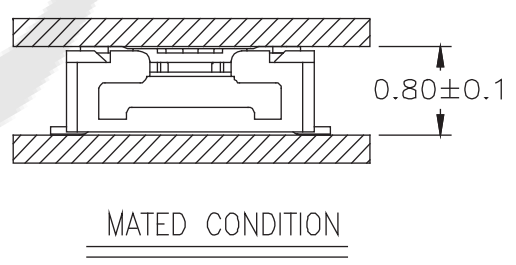
Material

Housing: Hi-Temp Thermoplastic , UL94V-0, Black
 Contact Pin: Copper Alloy
 GND terminal: Stainless Steel



Recommended PCB Layout
 (PCB TOLERANCE ± 0.05)

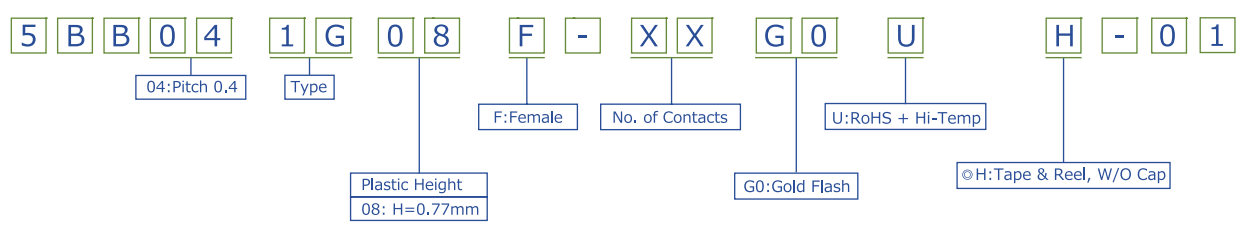
RECOMMENDED METAL MASK LAYOUT (NO PATTERNS) $t=0.08\text{mm}$



Table

No. of contacts	Dimensions		
	A	B	C
10	4.45	1.60	3.20
24	7.25	4.40	6.00
30	8.45	5.60	7.20
40	10.45	7.60	9.20
50	12.45	9.60	11.20

ORDER INFORMATION



⊙: Standard Recommended



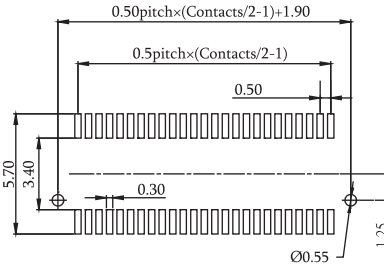
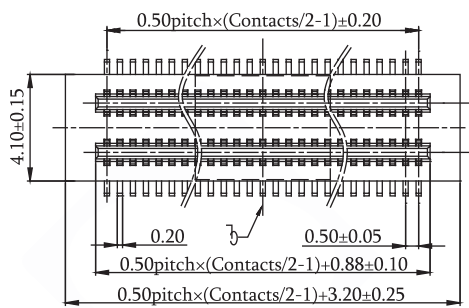
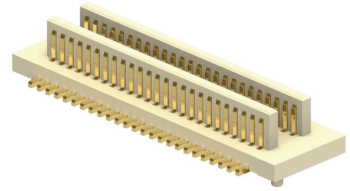
Board To Board 0.5mm Male H=0.8/1.0/1.5/2.0mm

Specifications

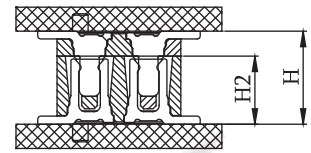
Current Rating: 0.5 AMP
 Insulation Resistance: 100MΩ Min.
 Contact Resistance: 50mΩ Max.
 Dielectric Voltage: 50V AC for one minute
 Operation Temperature: -20°C to +105°C

Material

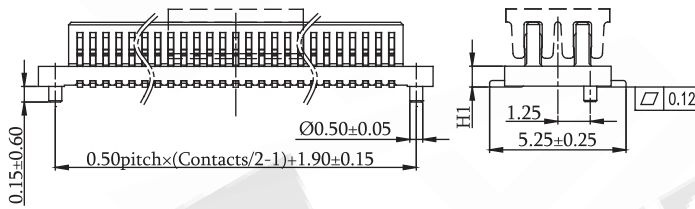
Insulator: Polyester, UL 94V-0
 ©Standard: Nylon 9T
 Terminal: Copper Alloy
 Plating: Gold Plated



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Assembly



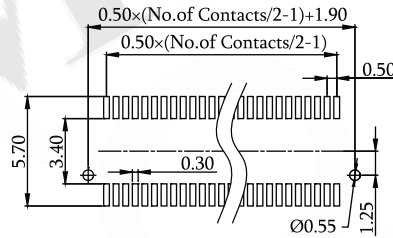
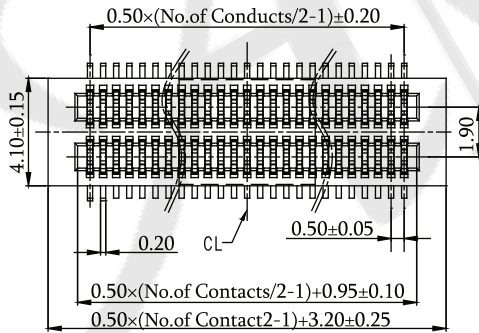
Table

Male
H1=0.8(10,12,20,30,40,60)
H1=1.0(40,50,100)
H1=1.5(20,30)
H1=2.0(20,30,34,40,50,70,80)

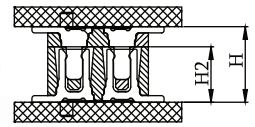
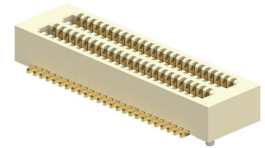
ASSY HIGH(H)	Male(H1)	Female(H2)
3.00	0.80	2.20
3.50	0.80	2.70
4.00	1.00	3.00
4.50	1.50	3.00
5.00	2.00	3.00
5.50	1.50	4.00
6.00	2.00	4.00

P/N.: 5BB054CXXM

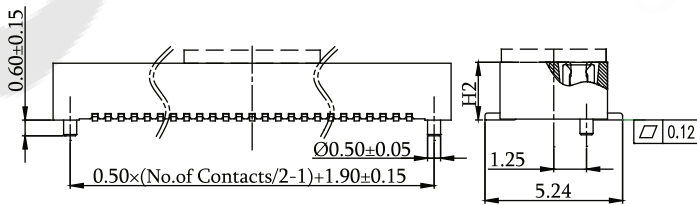
Board To Board 0.5mm Female H=2.2/2.7/3.0/4.0/4.5mm



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Assembly



Table

Female
H2=2.2(10,12,20,30,40,60)
H2=2.7(20,40)
H2=3.0(20,30,34,40,50,70,100)
H2=4.0(20,30,40)
H2=4.5(40)

ASSY HIGH(H)	Male(H1)	Female(H2)
3.00	0.80	2.20
3.50	0.80	2.70
4.00	1.00	3.00
4.50	1.50	3.00
5.00	2.00	3.00
5.50	1.50	4.00
6.00	2.00	4.00
6.50	2.00	4.50

P/N.: 5BB054CXXF

ORDER INFORMATION

5	B	B	0	5	4	C	X	X	X	-	X	X	X	X	U	X	-	0	1
05: Pitch 0.5					Type								U: RoHS + Nylon 9T						
		M: Male F: Female		No. of Contacts See Table								G3: Gold 3u" GA: Gold 5u" S3: Selective 3u" SA: Selective 5u"							
Male Plastic Height		Female Plastic Height												Ⓞ: Tube, W/O Cap C: Tube, With Cap R: Tape & Reel, With Cap					
08: H=0.80mm		22: H=2.20mm																	
10: H=1.00mm		27: H=2.70mm																	
15: H=1.50mm		30: H=3.00mm																	
20: H=2.00mm		40: H=4.00mm																	
		45: H=4.50mm																	

Ⓞ: Standard Recommended

B oard To Board 0.5mm



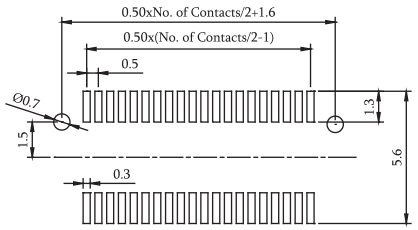
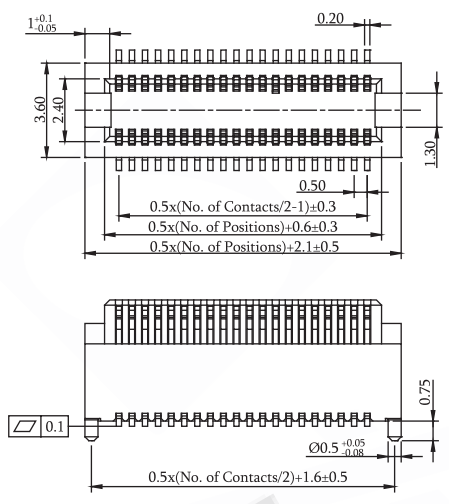
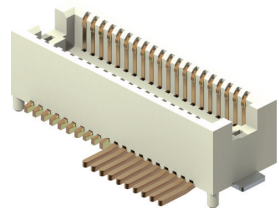
Board To Board 0.5mm Male H=2.2/2.7/4.8mm

Specifications

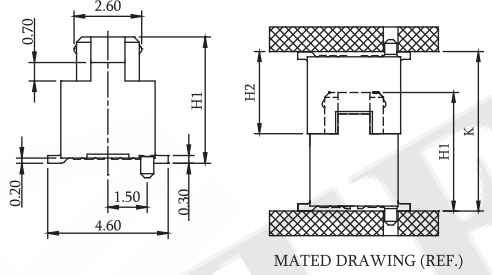
Current Rating: 0.5 AMP
 Insulation Resistance: 100MΩ Min.
 Contact Resistance: 30mΩ Max.
 Dielectric Voltage: 100V AC for one minute
 Operation Temperature: -20°C to +105°C

Material

Insulator: Nylon 9T, UL94V-0, Nylon Natural
 Contact Pin: Copper Alloy



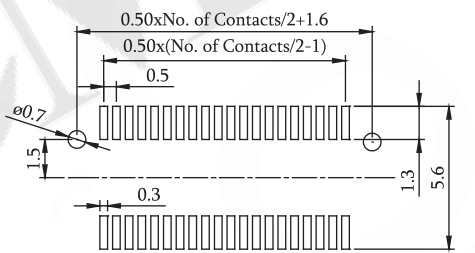
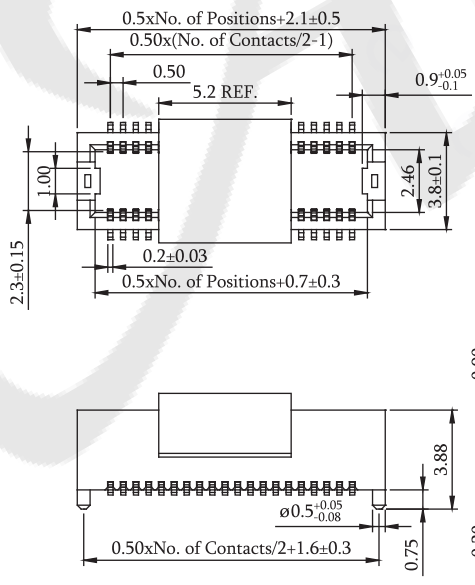
Recommended PCB Layout (PCB TOLERANCE ± 0.05)



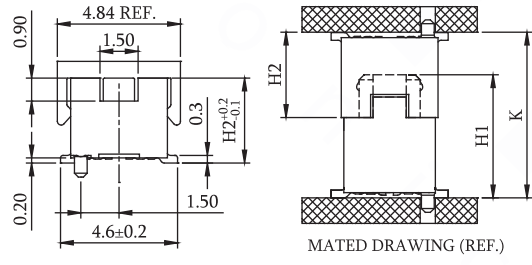
ASS'Y HIGH(K)	Male(H1)	Female(H2)
3.00	2.20	2.30
3.50	2.20	2.80
4.00	2.70	2.80
4.50	2.70	3.30
5.00	2.70	3.80
5.50	2.70	4.30
6.00	2.70	4.80
6.50	4.80	3.30
7.00	4.80	3.80
7.50	4.80	4.30
8.00	4.80	4.80

P/N.:5BB055CXXM

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



Recommended PCB Layout (PCB TOLERANCE ± 0.05)



ASS'Y HIGH(K)	Male(H1)	Female(H2)
3.00	2.20	2.30
3.50	2.20	2.80
4.00	2.70	2.80
4.50	2.70	3.30
5.00	2.70	3.80
5.50	2.70	4.30
6.00	2.70	4.80
6.50	4.80	3.30
7.00	4.80	3.80
7.50	4.80	4.30
8.00	4.80	4.80

P/N.:5BB055CXXF

ORDER INFORMATION

5	B	B	0	5	5	C	X	X	X	-	X	X	X	X	U	X	-	0	1
05:Pitch 0.5					TYPE		M:Male F:Female		No. of Contacts See Table			U:RoHS + Hi-Temp		Ⓞ:Tube, W/O Cap H:Tape & Reel, W/O Cap					
					Male Plastic Height 22: H=2.20mm 27: H=2.70mm 48: H=4.80mm		Female Plastic Height 23: H=2.30mm 28: H=2.80mm 33: H=3.30mm 38: H=3.80mm 43: H=4.30mm 48: H=4.80mm				G0:Gold G3:Gold 3u" GB:Gold 10u" GF:Gold 15u" GD:Gold 30u"								

Ⓞ:Standard Recommended



CONNECTORS MANUFACTURE

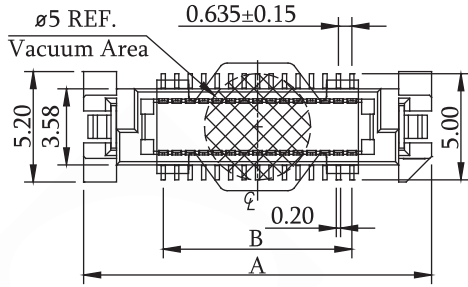
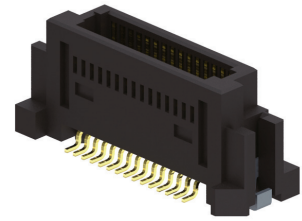
Board to Board 0.635mm Male H=5.0/6.0/7.0/8.0/9.0mm

Specifications

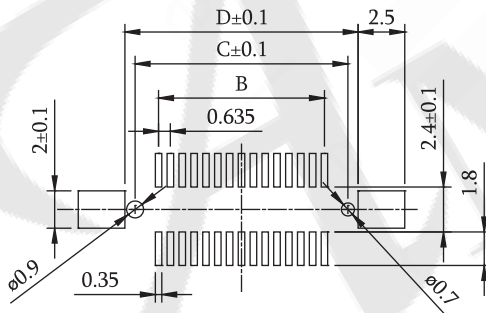
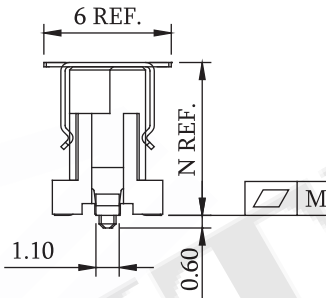
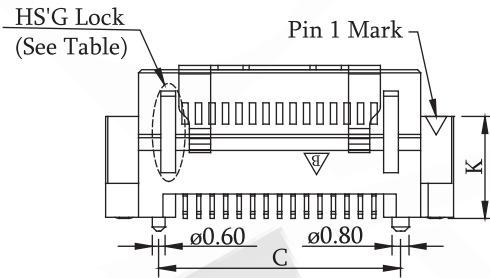
Current Rating:0.5 AMP
 Insulation Resistance:1000MΩ Min.
 Contact Resistance:70mΩ Max.
 Dielectric Voltage:250V AC for one minute
 Operation Temperature:-55°C to +85°C

Material

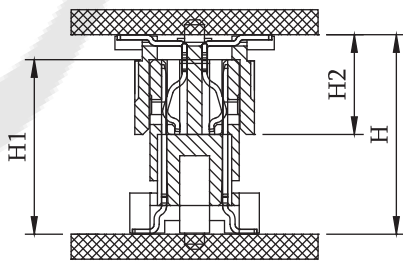
Insulator:Polyester,UL 94V-0
 Terminal:Copper Alloy
 Plating:Gold Plated



Plastic Height	Dim. N	Dim. K
50	5.00	2.80
60	6.00	3.80
70	7.00	4.80
80	8.00	5.80
90	9.00	6.80



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



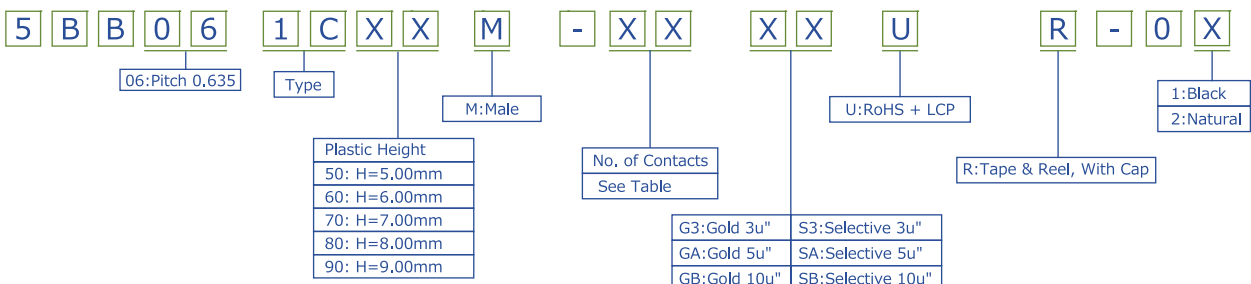
Assembly

Table

No. of Contact	Dimension				HS'G Lock
	A	B	C	D	
02	13.22	5.715	8.22	9.32	Yes
03	16.40	8.890	11.40	12.50	
04	19.57	12.065	14.57	15.67	
05	22.75	15.240	17.75	18.85	
06	25.92	18.415	20.92	22.02	
07	29.10	21.590	24.10	25.20	No
08	32.27	24.765	27.27	28.37	
09	35.45	27.940	30.45	31.55	
100(A1)	38.62	31.115	33.62	34.72	
120(A2)	44.97	37.465	39.97	41.07	
140(A3)	51.32	43.815	46.32	57.42	No
160(A4)	57.67	50.165	52.67	53.77	

Ass'y High(H)	Male(H1)	Female(H2)	Before Test	After Test
6.00	5.00	4.00	≤ 40mΩ	≤ 60mΩ
7.00	6.00			
8.00	7.00			
9.00	8.00	4.00	≤ 50mΩ	≤ 70mΩ
10.00	9.00			

ORDER INFORMATION



©:Standard Recommended

Board To Board 0.635mm



RoHS

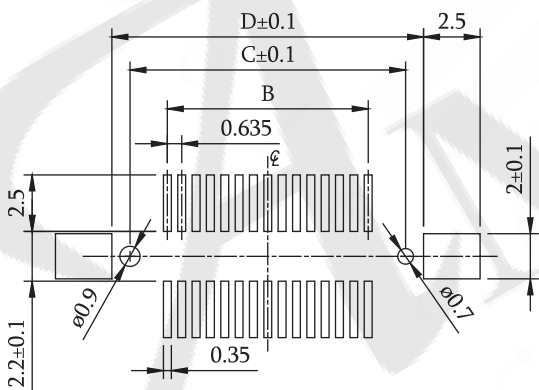
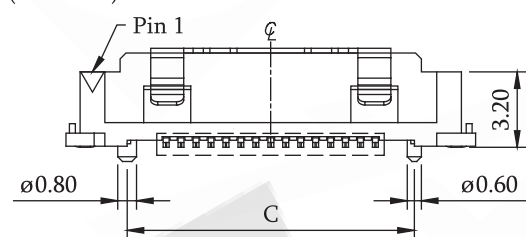
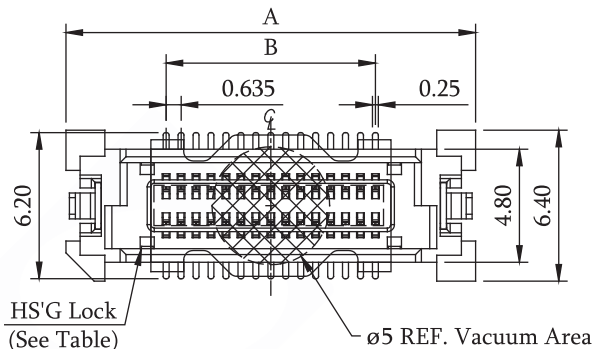
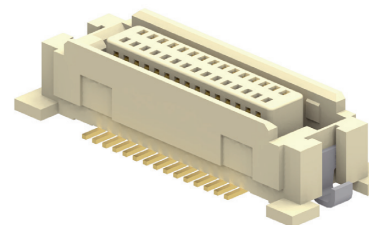
Board to Board 0.635mm Female H=4.0mm

Specifications

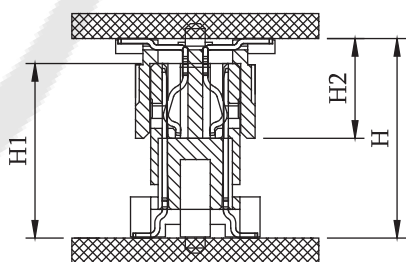
Current Rating:0.5 AMP
 Insulation Resistance:1000MΩ Min.
 Contact Resistance:70mΩ Max.
 Dielectric Voltage:250V AC for one minute
 Operation Temperature:-55°C to +85°C

Material

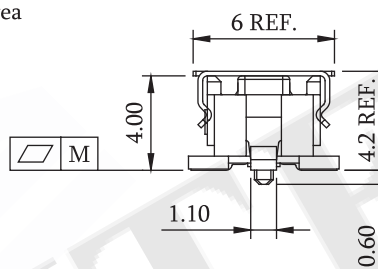
Insulator:Polyester,UL 94V-0
 Terminal:Copper Alloy
 Plating:Gold Plated



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



Assembly

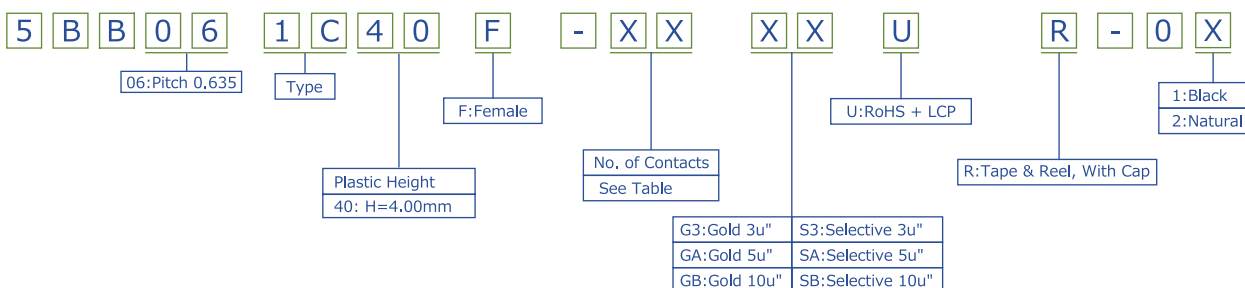


Table

No. of Contact	Dimension				HS'G Lock
	A	B	C	D	
02	14.22	5.715	9.02	10.62	Yes
03	17.40	8.890	12.20	13.80	
04	20.57	12.065	15.37	16.97	
05	23.75	15.240	18.55	20.15	
06	26.92	18.415	21.72	23.32	
07	30.10	21.590	24.90	26.50	
08	33.27	24.765	28.07	29.67	
09	36.45	27.940	31.25	32.85	No
100(A1)	39.62	31.115	34.42	36.02	
120(A2)	45.97	37.465	40.77	42.30	
140(A3)	52.32	43.815	47.12	48.72	
160(A4)	58.67	50.165	53.47	55.07	

Ass'y High(H)	Male(H1)	Female(H2)	Before Test	After Test
6.00	5.00	4.00	≤ 40mΩ	≤ 60mΩ
7.00	6.00			
8.00	7.00		≤ 50mΩ	≤ 70mΩ
9.00	8.00			
10.00	9.00			

ORDER INFORMATION





CONNECTORS MANUFACTURE

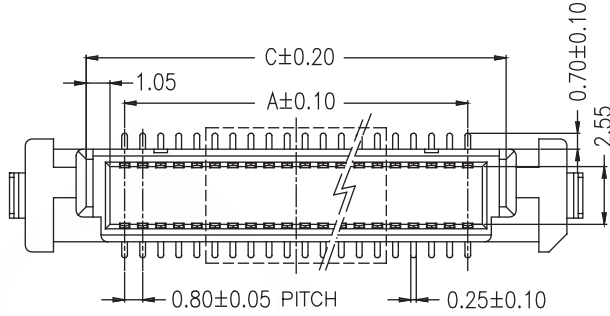
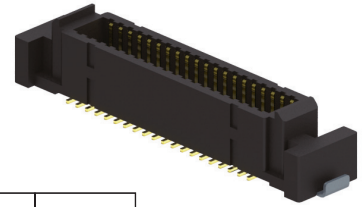
Board To Board 0.8mm Male H=6.55/9.55/12.55mm

Specifications

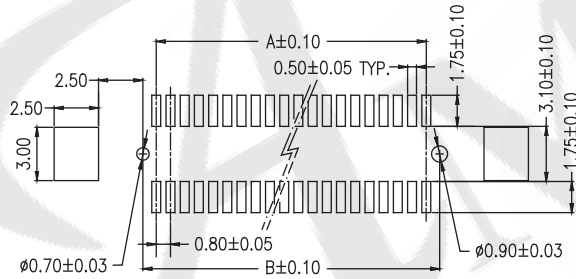
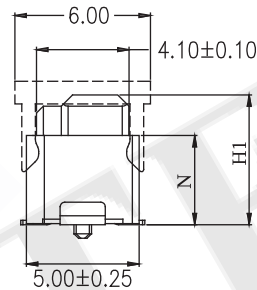
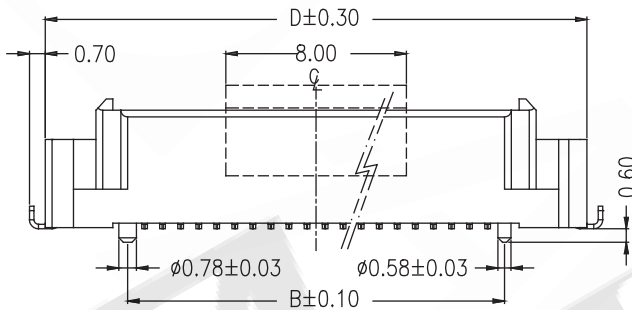
Current Rating:0.5AMP
 Insulation Resistance:100MΩ Min.
 Contact Resistance:70mΩ Max.
 Dielectric Voltage:500V AC for one minute
 Operation Temperature:-40°C to +85°C

Material

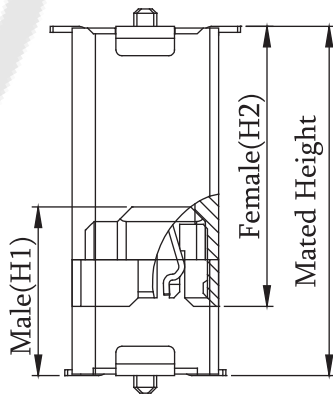
Insulator:Polyester,UL 94V-0
 ©Standard:LCP
 Terminal:Copper Alloy
 Plating:Gold Plated



Plastic High 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)

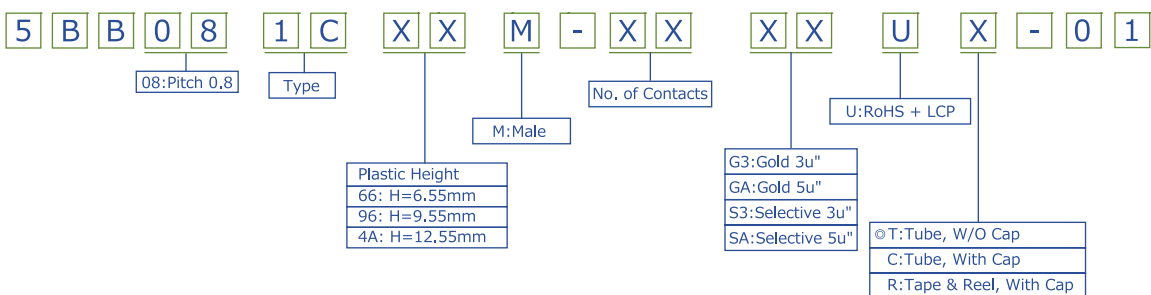


Table

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	16.20	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	39.20	40.70	44.30	48.00
120	47.20	48.70	52.30	56.00
140	55.20	56.70	60.30	64.00

Male P/N	Femlae P/N	Mated Height
5BB081C48M-XXXXUX-01	5BB081C66F-XXXXUX-01	8.0
5BB081C58M-XXXXUX-01		9.0
5BB081C78M-XXXXUX-01		11.0
5BB081C48M-XXXXUX-01	5BB081C96F-XXXXUX-01	11.0
5BB081C58M-XXXXUX-01		12.0
5BB081C78M-XXXXUX-01		14.0
5BB081C48M-XXXXUX-01	5BB081C4AF-XXXXUX-01	14.0
5BB081C58M-XXXXUX-01		15.0
5BB081C78M-XXXXUX-01		17.0

ORDER INFORMATION



©:Standard Recommended

Board To Board 0.8mm



RoHS

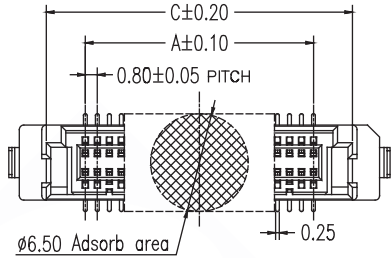
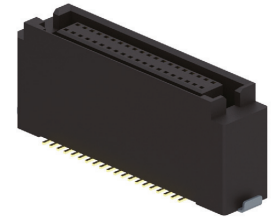
Board To Board 0.8mm Female H=4.75/5.75/7.75mm

Specifications

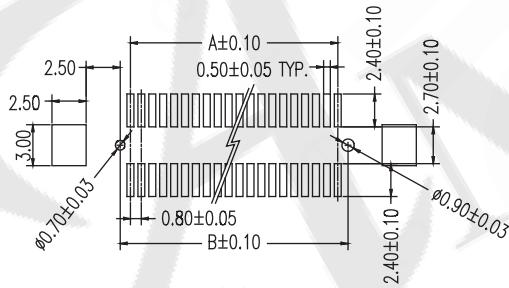
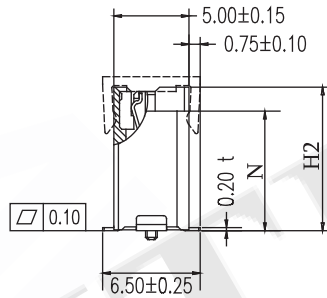
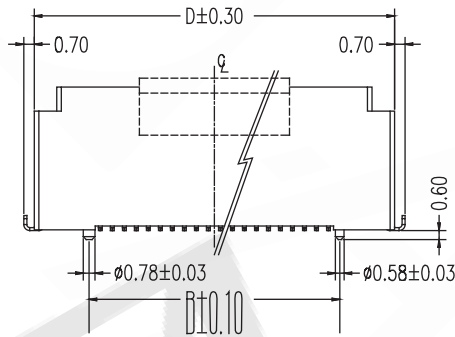
Current Rating:0.5AMP
 Insulation Resistance:100MΩ Min.
 Contact Resistance:70mΩ Max.
 Dielectric Voltage:500V AC for one minute
 Operation Temperature:-40°C to +85°C

Material

Insulator:Polyester,UL 94V-0
 ©Standard:LCP
 Terminal:Copper Alloy
 Plating:Gold Plated



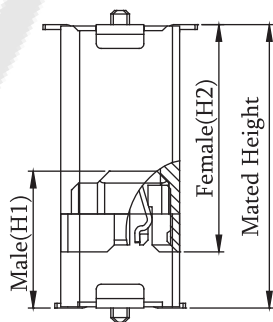
Plastic Height Code	N	H2
66	5.00	6.55
96	8.00	9.55
4A	11.00	12.55



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

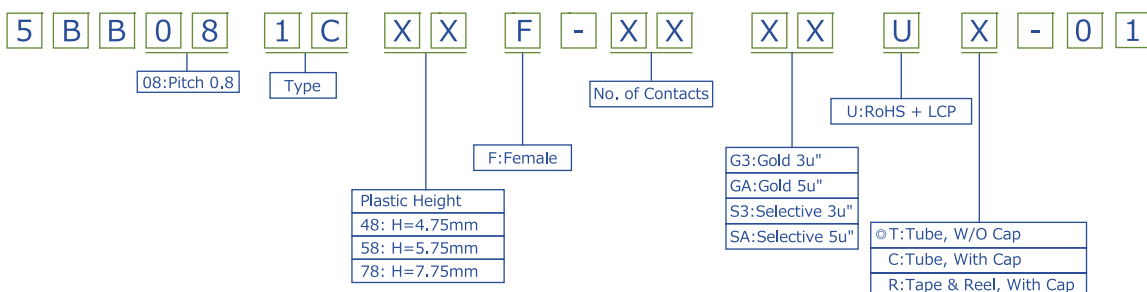
Table

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	16.20	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	39.20	40.70	44.30	48.00
120	47.20	48.70	52.30	56.00
140	55.20	56.70	60.30	64.00



Male P/N	Femlae P/N	Mated Height
5BB081C48M-XXXXUX-01		8.0
5BB081C58M-XXXXUX-01	5BB081C66F-XXXXUX-01	9.0
5BB081C78M-XXXXUX-01		11.0
5BB081C48M-XXXXUX-01		11.0
5BB081C58M-XXXXUX-01	5BB081C96F-XXXXUX-01	12.0
5BB081C78M-XXXXUX-01		14.0
5BB081C48M-XXXXUX-01		14.0
5BB081C58M-XXXXUX-01	5BB081C4AF-XXXXUX-01	15.0
5BB081C78M-XXXXUX-01		17.0

ORDER INFORMATION



©:Standard Recommended



CONNECTORS MANUFACTURE

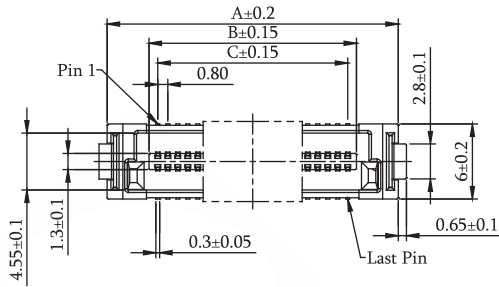
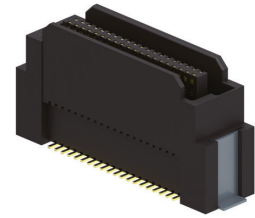
Board To Board 0.8mm Male H=8.0/11.0/12.0/13.0/14.0mm

Specifications

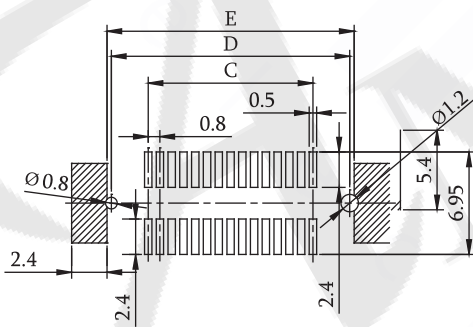
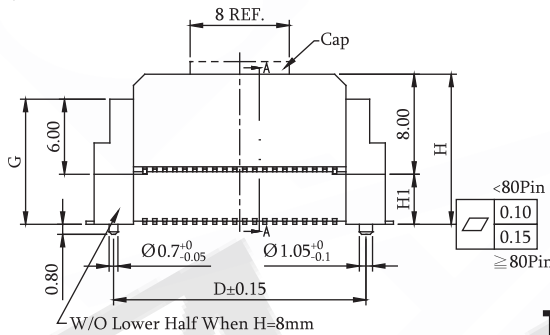
Current Rating:0.5AMP
 Insulation Resistance:100MΩ Min.
 Contact Resistance:65mΩ Max.
 Dielectric Voltage:250V AC for one minute
 Operation Temperature:-40°C to +105°C

Material

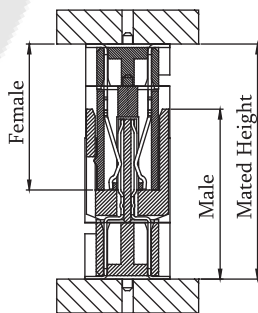
Insulator:Polyester,UL 94V-0
 Terminal:Copper Alloy
 Plating:Gold Plated



H1	G ⁺⁰ _{-0.4}	H
8.00	6.00	
11.00	9.00	3.00
12.00	10.00	4.00
13.00	11.00	5.00
14.00	12.00	6.00



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



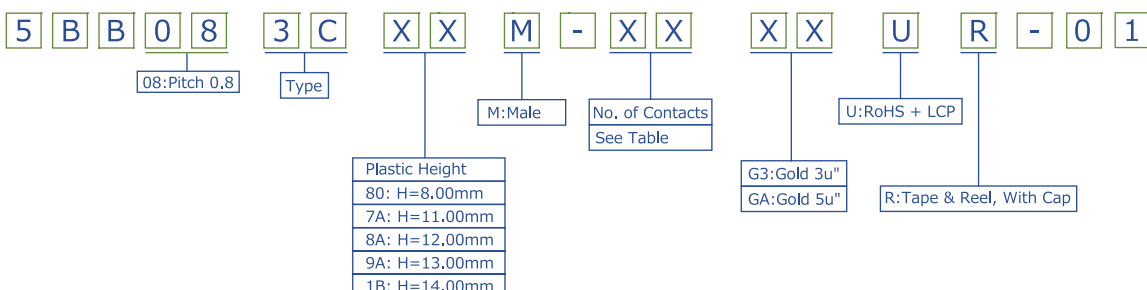
Mated Drawing (REF.)

Table

No. of Contacts	Dimension(mm)				
	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(A2)	55.30	48.60	47.20	52.20	52.80
160(A7)	71.30	64.60	63.20	68.20	68.80

Female P/N	Male P/N	Mated Height
5BB083C74F-XXXXUR-01	5BB083C80M-XXXXUR-01	10.00
	5BB083C7AM-XXXXUR-01	13.00
	5BB083C8AM-XXXXUR-01	14.00
	5BB083C9AM-XXXXUR-01	15.00
5BB083C1AF-XXXXUR-01	5BB083C7AM-XXXXUR-01	16.00
	5BB083C8AM-XXXXUR-01	17.00
	5BB083C9AM-XXXXUR-01	18.00
5BB083C2AF-XXXXUR-01	5BB083C9AM-XXXXUR-01	19.00
5BB083C3AF-XXXXUR-01	5BB083C9AM-XXXXUR-01	20.00
5BB083C5AF-XXXXUR-01	5BB083C1BM-XXXXUR-01	22.00

ORDER INFORMATION



©:Standard Recommended

Board To Board 0.8mm



RoHS

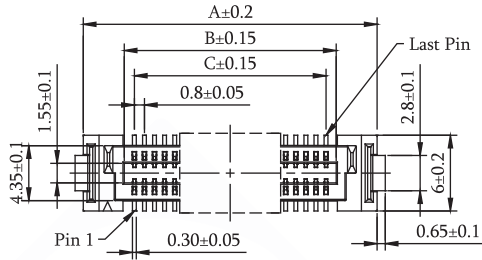
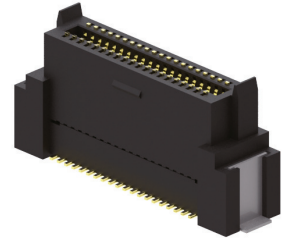
Board To Board 0.8mm Female H=7.4/10.4/11.4/12.4/13.4mm

Specifications

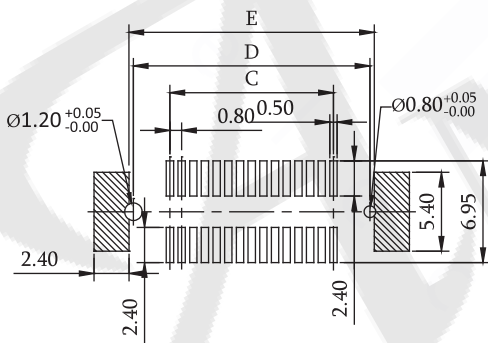
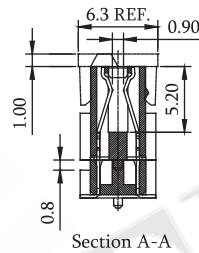
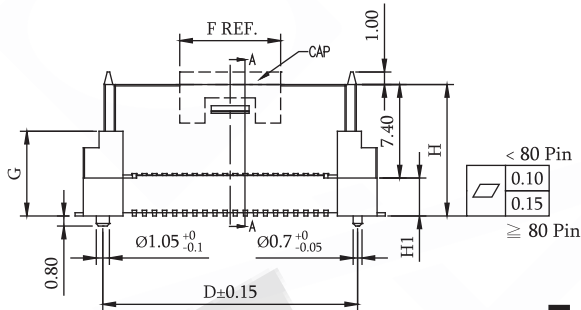
Current Rating:0.5AMP
 Insulation Resistance:100MΩ Min.
 Contact Resistance:65mΩ Max.
 Dielectric Voltage:250V AC for one minute
 Operation Temperature:-40°C to +105°C

Material

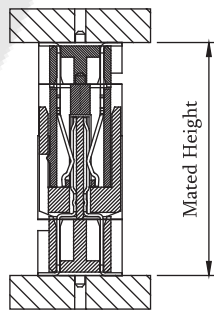
Insulator:Polyester,UL 94V-0
 Terminal:Copper Alloy
 Plating:Gold Plated



H	G ⁺⁰ _{-0.4}	H1
7.40	4.00	3.00
10.40	7.00	3.00
11.40	8.00	4.00
12.40	9.00	5.00
13.40	10.00	6.00



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



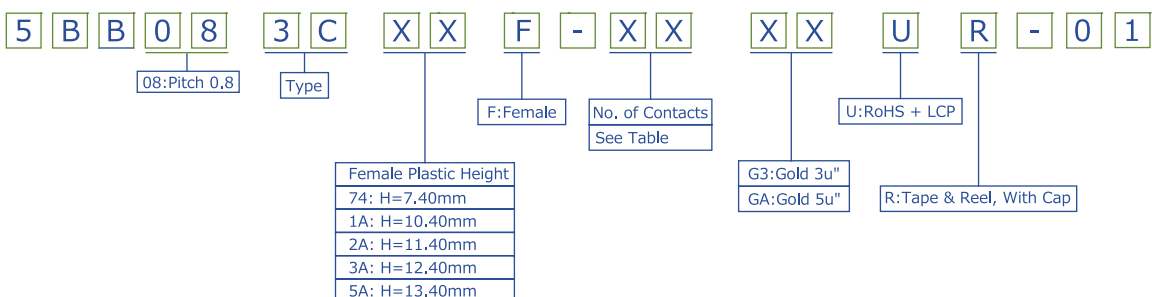
Mated Drawing (REF.)

Table

No. of Contacts	Dimension(mm)					
	A	B	C	D	E	F
20	15.30	8.80	7.20	12.20	12.80	8.0
30	19.30	12.80	11.20	16.20	16.80	
40	23.30	16.80	15.20	20.20	20.80	16.0
50	27.30	20.80	19.20	24.20	24.80	
60	31.30	24.80	23.20	28.20	28.80	24.0
80	39.30	32.80	31.20	36.20	36.80	
100(A1)	47.30	40.80	39.20	44.20	44.80	40.0
120(A2)	55.30	48.80	47.20	52.20	52.80	
160(A7)	71.30	64.80	63.20	68.20	68.80	48.0

Female P/N	Male P/N	Mated Height
5BB083C74F-XXXXUR-01	5BB083C80M-XXXXUR-01	10.00
	5BB083C7AM-XXXXUR-01	13.00
	5BB083C8AM-XXXXUR-01	14.00
	5BB083C9AM-XXXXUR-01	15.00
5BB083C1AF-XXXXUR-01	5BB083C7AM-XXXXUR-01	16.00
	5BB083C8AM-XXXXUR-01	17.00
	5BB083C9AM-XXXXUR-01	18.00
5BB083C2AF-XXXXUR-01	5BB083C9AM-XXXXUR-01	19.00
5BB083C3AF-XXXXUR-01	5BB083C9AM-XXXXUR-01	20.00
5BB083C5AF-XXXXUR-01	5BB083C1BM-XXXXUR-01	22.00

ORDER INFORMATION



©:Standard Recommended

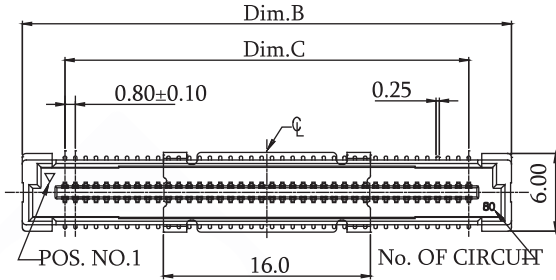
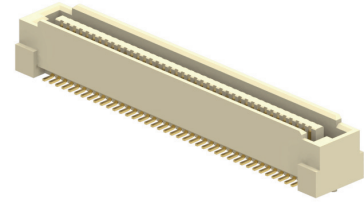
Board To Board 0.8mm Male H=4.6/5.6/6.6/7.6mm

Specifications

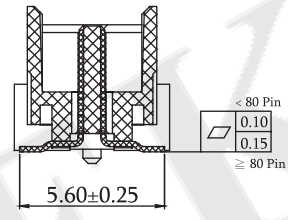
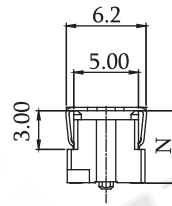
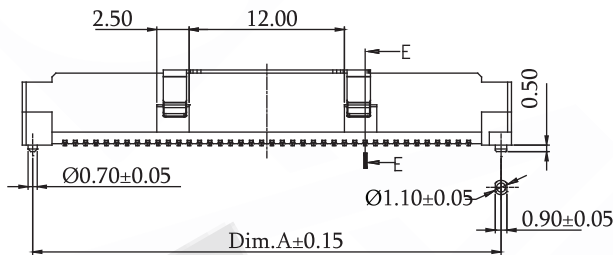
Current Rating: 0.5 AMP
 Insulation Resistance: 500MΩ Min.
 Contact Resistance: 30mΩ Max.
 Dielectric Voltage: 100V AC for one minute
 Operation Temperature: -40°C to +125°C

Material

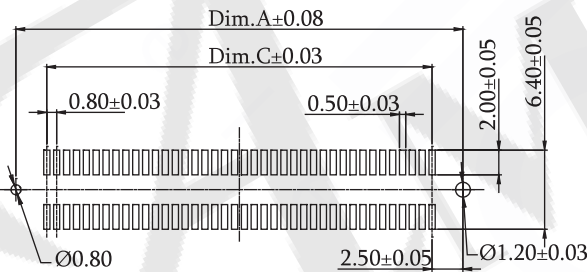
Insulator: Polyester, UL 94V-0
 Terminal: Copper Alloy



Plastic High Code	Dim. N
46	4.60
56	5.60
66	6.60
76	7.60



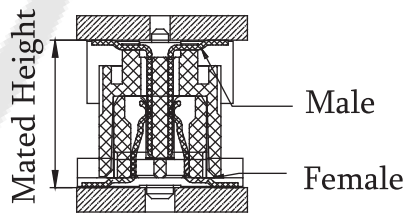
Section E-E
Scale 2:1



Recommended PCB Layout
(PCB TOLERANCE ±0.05)

Table

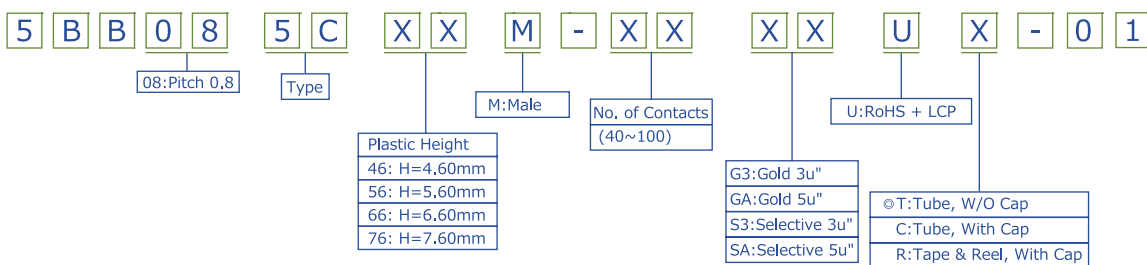
No. of contacts	Dimensions		
	A	B	C
46	20.20	21.80	15.20
60	28.20	29.80	23.20
80	36.20	37.80	31.20
100(A1)	44.20	45.80	39.20
120(A2)	52.20	53.80	47.20
140(A6)	60.20	61.80	55.20
160(A7)	68.20	69.80	63.20
180(A8)	76.20	77.80	71.20
200(A9)	84.20	85.80	79.20



Assembly

Female P/N	Male P/N	Mated Height
5BB085C38F-XXXXUR-01	5BB085C46M-XXXXUR-01	5.0
	5BB085C56M-XXXXUR-01	6.0
	5BB085C66M-XXXXUR-01	7.0
	5BB085C76M-XXXXUR-01	8.0
5BB085C78F-XXXXUR-01	5BB085C46M-XXXXUR-01	9.0
	5BB085C56M-XXXXUR-01	10.0
	5BB085C66M-XXXXUR-01	11.0
	5BB085C76M-XXXXUR-01	12.0
5BB085C2BF-XXXXUR-01	5BB085C46M-XXXXUR-01	13.0
	5BB085C56M-XXXXUR-01	14.0
	5BB085C66M-XXXXUR-01	15.0
	5BB085C76M-XXXXUR-01	16.0

ORDER INFORMATION



◎: Standard Recommended

B oard To Board 0.8mm



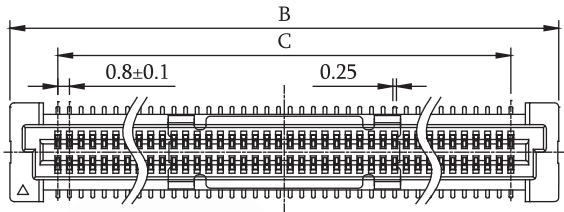
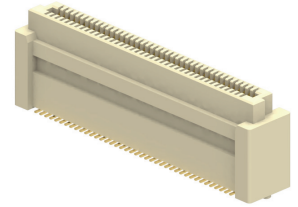
Board To Board 0.8mm Female H=3.75/7.75/11.75mm

Specifications

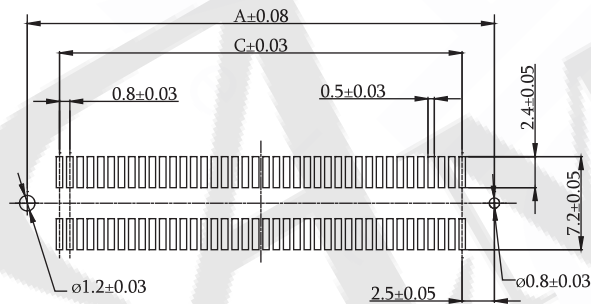
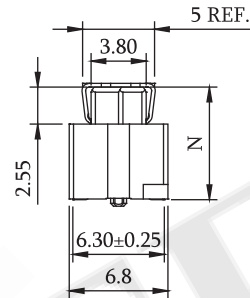
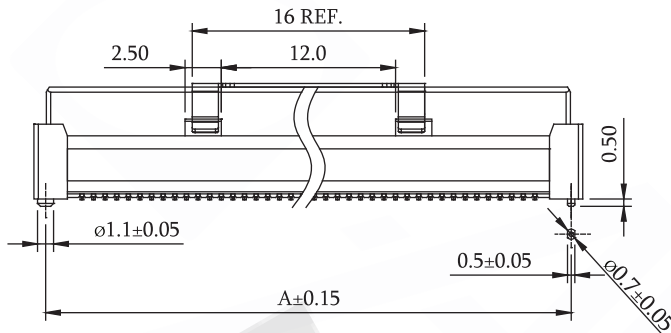
Current Rating: 0.5 AMP
 Insulation Resistance: 500MΩ Min.
 Contact Resistance: 30mΩ Max.
 Dielectric Voltage: 100V AC for one minute
 Operation Temperature: -40°C to +125°C

Material

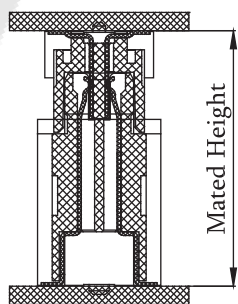
Insulator: Polyester, UL 94V-0
 Terminal: Copper Alloy



Plastic High Code	Dim. N
38	3.75
78	7.75
2B	11.75



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



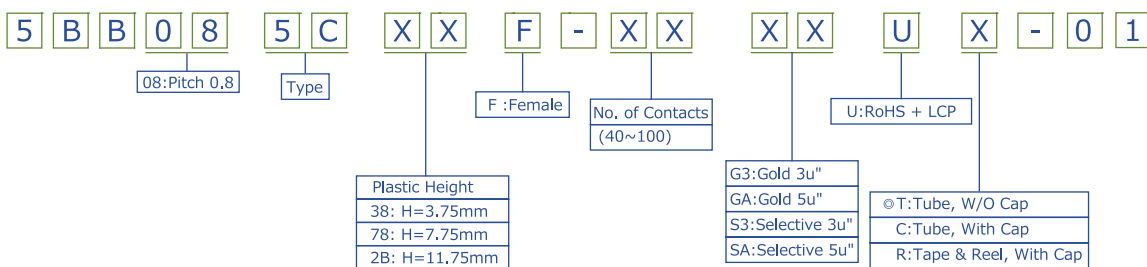
Assembly

Table

No. of Contacts	Dimensions(mm)		
	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(A2)	52.20	53.80	47.20
140(A6)	60.20	61.80	55.20
160(A7)	68.20	69.80	63.20
180(A8)	76.20	77.80	71.20
200(A9)	84.20	85.80	79.20

Female P/N	Male P/N	Mated Height
5BB085C38F-XXXXUR-01	5BB085C46M-XXXXUR-01	5.0
	5BB085C56M-XXXXUR-01	6.0
	5BB085C66M-XXXXUR-01	7.0
	5BB085C76M-XXXXUR-01	8.0
5BB085C78F-XXXXUR-01	5BB085C46M-XXXXUR-01	9.0
	5BB085C56M-XXXXUR-01	10.0
	5BB085C66M-XXXXUR-01	11.0
	5BB085C76M-XXXXUR-01	12.0
5BB085C2BF-XXXXUR-01	5BB085C46M-XXXXUR-01	13.0
	5BB085C56M-XXXXUR-01	14.0
	5BB085C66M-XXXXUR-01	15.0
	5BB085C76M-XXXXUR-01	16.0

ORDER INFORMATION



◎: Standard Recommended

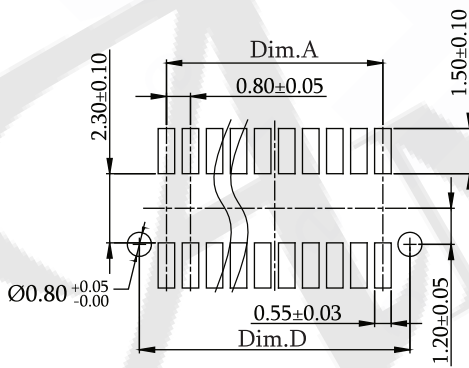
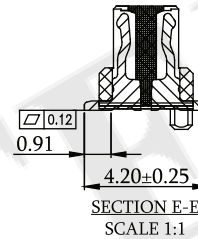
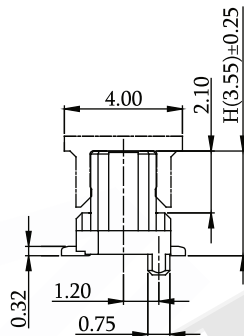
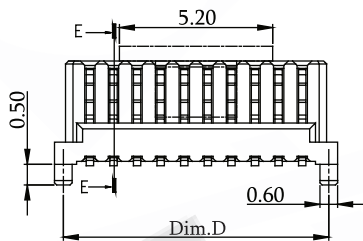
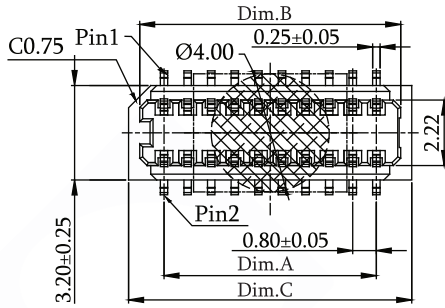
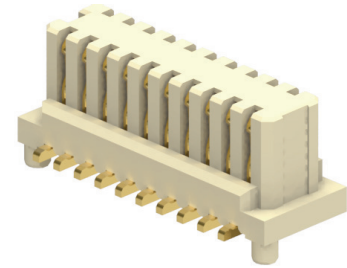
Board To Board 0.8mm Male H=3.55mm

Specifications

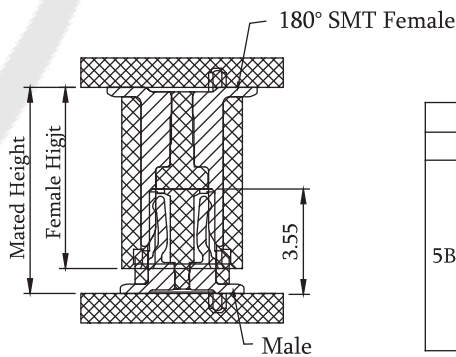
Current Rating: 0.5 AMP
 Insulation Resistance: 500MΩ Min.
 Contact Resistance: 30mΩ Max.
 Dielectric Voltage: 100V AC for one minute
 Operation Temperature: -20°C to +105°C

Material

Insulator: Polyester, UL 94V-0
 ©Standard: RoHS + Nylon 9T
 Terminal: Copper Alloy



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

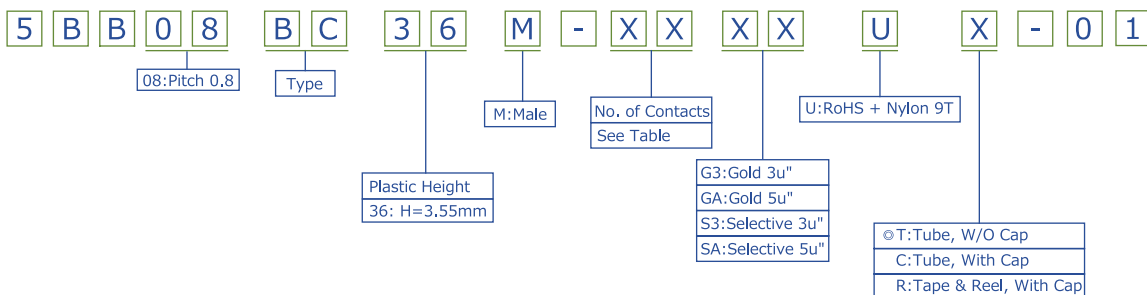


Table

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

Dimension (mm)		
Male P/N	Female P/N	Mated Height
5BB08BC36M-XXXXUX-0	5BB08BC36F-XXXXUX-01	4.50
	5BB08BC41F-XXXXUX-01	5.00
	5BB08BC47F-XXXXUX-01	5.65
	5BB08BC51F-XXXXUX-01	6.00
	5BB08BC56F-XXXXUX-01	6.50
	5BB08BC61F-XXXXUX-01	7.00

ORDER INFORMATION



©: Standard Recommended

Board To Board 0.8mm



RoHS

AMTEK CONNECTORS MANUFACTURE

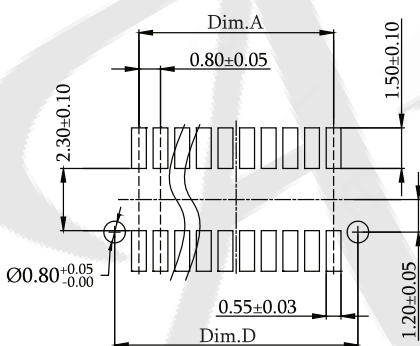
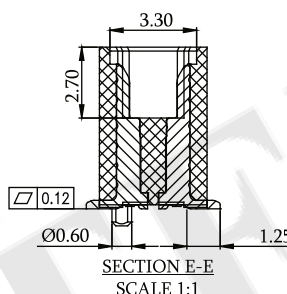
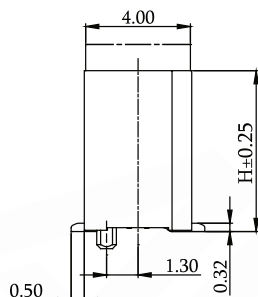
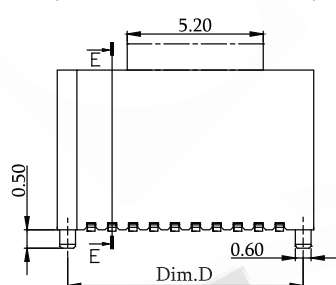
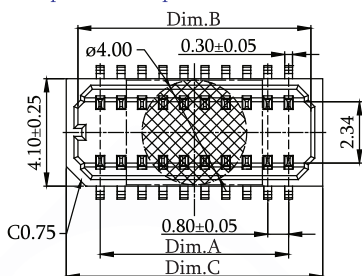
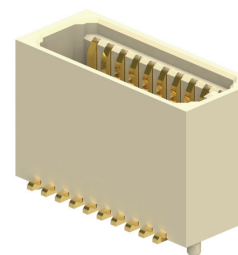
Board To Board 0.8mm Female H=3.65/4.7/5.15/6.15mm

Specifications

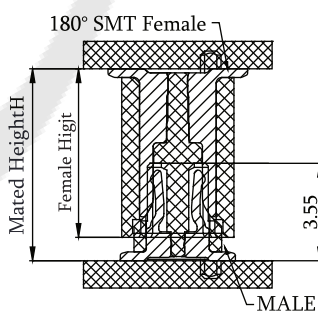
Current Rating:0.5 AMP
 Insulation Resistance:500MΩ Min.
 Contact Resistance:30mΩ Max.
 Dielectric Voltage:100V AC for one minute
 Operation Temperature:-20°C to +105°C

Material

Insulator:Polyester,UL 94V-0
 ©Standard:RoHS +Nylon 9T
 Terminal:Copper Alloy



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



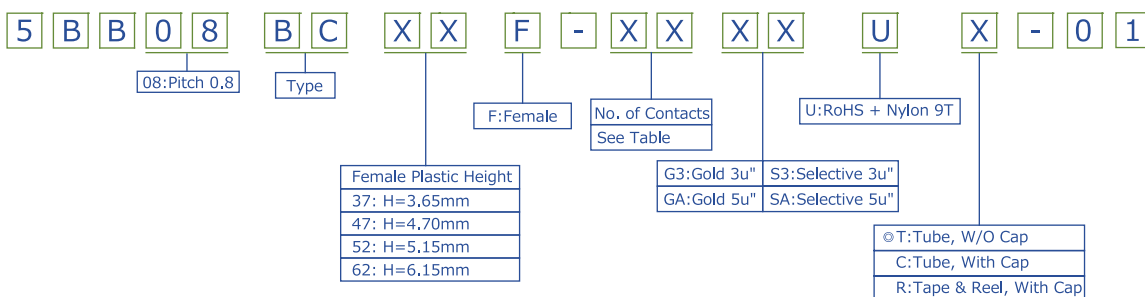
MATED DRAWING(REF)

Table

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	16.08	16.80	16.20
40	15.20	16.85	17.60	17.00

Male P/N	Female P/N	Mated Height
5BB08BC36M-XXXXUX-0	5BB08BC36F-XXXXUX-01	4.50
	5BB08BC41F-XXXXUX-01	5.00
	5BB08BC47F-XXXXUX-01	5.65
	5BB08BC51F-XXXXUX-01	6.00
	5BB08BC56F-XXXXUX-01	6.50
	5BB08BC61F-XXXXUX-01	7.00

ORDER INFORMATION



©:Standard Recommended

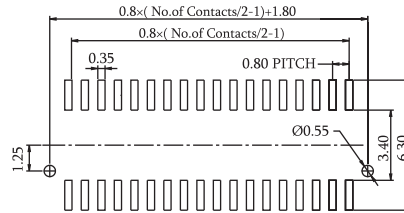
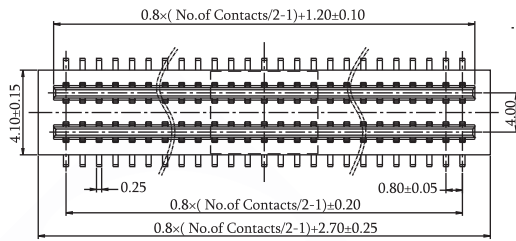
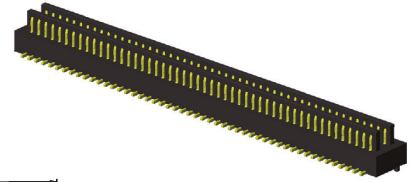
Board To Board 0.8mm Male H=1.0/1.5/2.0/3.0/4.0mm

Specifications

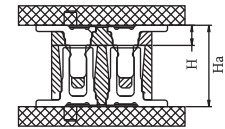
Current Rating: 0.5 AMP
 Insulation Resistance: 100MΩ Min.
 Contact Resistance: 50mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -20°C to +105°C

Material

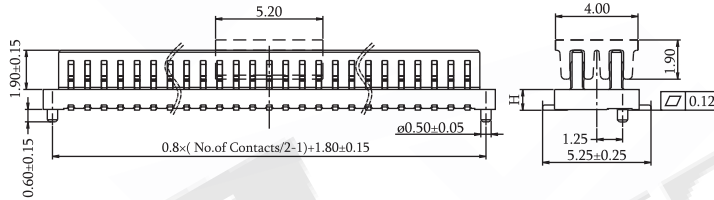
Insulator: Polyester, UL 94V-0
 ©Standard: LCP
 Terminal: Copper Alloy



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



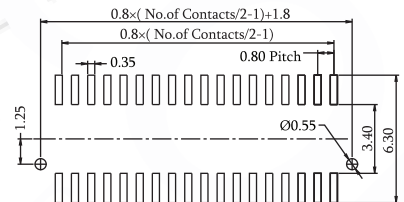
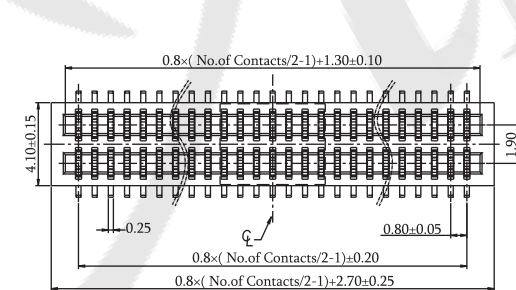
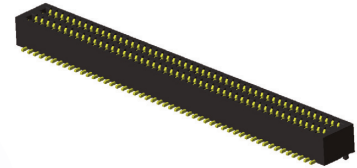
Assembly



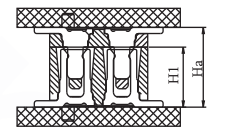
Part No.	Ha	Male(H)	Female(H1)
5BB082C10M-XXXXUX-XX	4.00	1.00	3.00
5BB082C15M-XXXXUX-XX	4.50	1.50	
5BB082C20M-XXXXUX-XX	5.00	2.00	
5BB082C15M-XXXXUX-XX	5.50	1.50	4.00
5BB082C20M-XXXXUX-XX	6.00	2.00	4.50
5BB082C30M-XXXXUX-XX	7.00	3.00	
5BB082C40M-XXXXUX-XX	8.00	4.00	4.50

P/N.: 5BB082CXXM

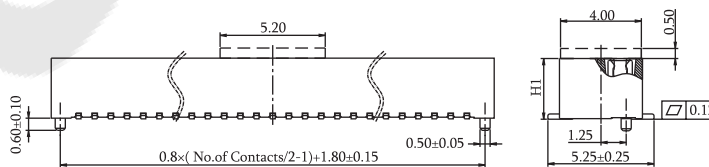
Board To Board 0.8mm Female H=3.0/4.0/4.5mm



Recommended PCB Layout
(PCB TOLERANCE ±0.05)



Assembly



Part No.	Ha	Male(H)	Female(H1)
5BB082C30F-XXXXUX-XX	4.00	1.00	3.00
5BB082C40F-XXXXUX-XX	4.50	1.50	
5BB082C45F-XXXXUX-XX	5.00	2.00	
5BB082C40F-XXXXUX-XX	5.50	1.50	4.00
5BB082C45F-XXXXUX-XX	6.00	2.00	4.50
5BB082C40F-XXXXUX-XX	7.00	3.00	
5BB082C45F-XXXXUX-XX	7.50	3.00	4.50
5BB082C40F-XXXXUX-XX	8.00	4.00	4.00

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, 50, 80, 100)

U: RoHS + LCP

Male Plastic Height	Female Plastic Height
10: H=1.00mm	30: H=3.00mm
15: H=1.50mm	40: H=4.00mm
20: H=2.00mm	45: H=4.50mm
30: H=3.00mm	
40: H=4.00mm	

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

⊙T: Tube, W/O Cap
 C: Tube, With Cap
 R: Tape & Reel, With Cap

⊙: Standard Recommended

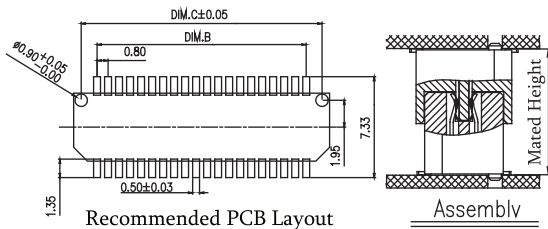
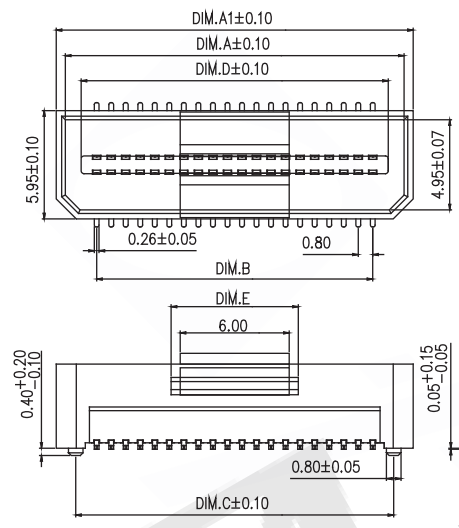
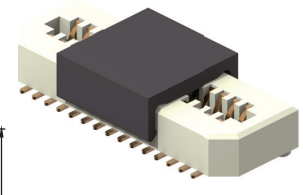
Board To Board 0.8mm Male H=2.72/3.72/4.72/10.14/11.14mm

Specifications

Current Rating: 0.5 AMP
 Insulation Resistance: 100MΩ Min.
 Contact Resistance: 20mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -25°C to +85°C

Material

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



Recommended PCB Layout (PCB TOLERANCE ±0.05)

Table

Male P/N	Mated Height
5BB089C27M	3.0
5BB089C37M	4.0
5BB089C47M	5.0
5BB089C27M	3.5
5BB089C37M	4.5
5BB089C47M	5.5
5BB089C27M	6.0
5BB089C37M	7.0
5BB089C47M	8.0
5BB089C1CM	13.0
5BB089C2CM	14.0

Pin/Dim	A1	A	B	C	D	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	
22	12.45	11.45	8.00	10.30	9.70	
24	13.25	12.25	8.80	11.10	10.50	8.00
26	14.05	13.05	9.60	11.90	11.30	
30	15.65	14.65	11.20	13.50	12.90	
34	17.25	16.25	12.80	15.10	14.50	10.00
40	19.65	18.65	15.20	17.50	16.90	
50	25.85	23.45	19.20	21.50	20.90	
60	29.85	27.45	23.20	25.50	24.90	16.00
64	31.45	29.05	24.80	27.10	26.50	
80	37.85	35.45	31.20	33.50	32.90	
100(A1)	45.85	43.45	39.20	41.50	40.90	20.00

P/N.:5BB089CXXM

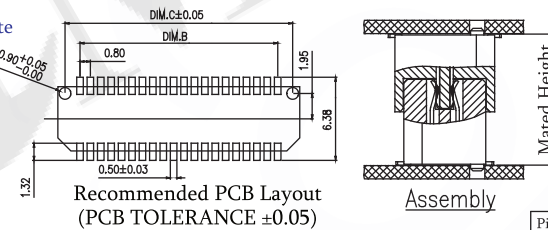
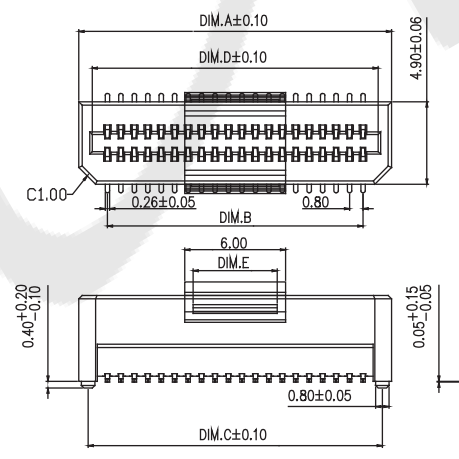
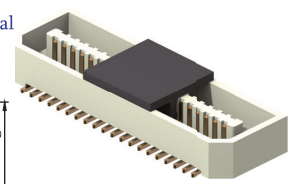
Board To Board 0.8mm Female H=3.4mm

Specifications

Current Rating: 0.5 AMP
 Insulation Resistance: 500MΩ Min.
 Contact Resistance: 20mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -25°C to +85°C

Material

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



Recommended PCB Layout (PCB TOLERANCE ±0.05)

Table

Female P/N	Mated Height
5BB089C22F-XXXXUX-01	3.0
	4.0
	5.0
5BB089C27F-XXXXUX-01	3.5
	4.5
	5.5
	6.0
	7.0
5BB089C52F-XXXXUX-01	8.0
	13.0
	14.0

Pin/Dim	A	B	C	D	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	
22	11.40	8.00	10.30	9.80	
24	12.20	8.80	11.10	10.60	2.50
26	13.00	9.60	11.90	11.40	
30	14.60	11.20	13.50	13.00	
34	16.20	12.80	15.10	14.60	3.00
40	18.60	15.20	17.50	17.00	
50	23.40	19.20	21.50	21.00	
60	27.40	23.20	25.50	25.00	5.00
64	29.00	24.80	27.10	26.60	
80	35.40	31.20	33.50	33.00	
100(A1)	43.40	39.20	41.50	41.00	6.50

P/N.:5BB089CXXF

ORDER INFORMATION

5	B	B	0	8	9	C	X	X	X	-	X	X	X	X	U	X	-	0	1
08:Pitch 0.8					Type		M:Male F:Female		No. of Contacts See Table			U:RoHS + Hi-Temp							
Male Plastic Height				Female Plastic Height				G3:Gold 3u"		S3:Selective 3u"									
27: H=2.72mm				34: H=3.4mm				GA:Gold 5u"		SA:Selective 5u"									
37: H=3.72mm																			
47: H=4.72mm																			
1C: H=10.72mm																			
2C: H=11.72mm																			

◎:Standard Recommended

◎T:Tube, W/O Cap
 C:Tube, With Cap
 R:Tape & Reel, With Cap

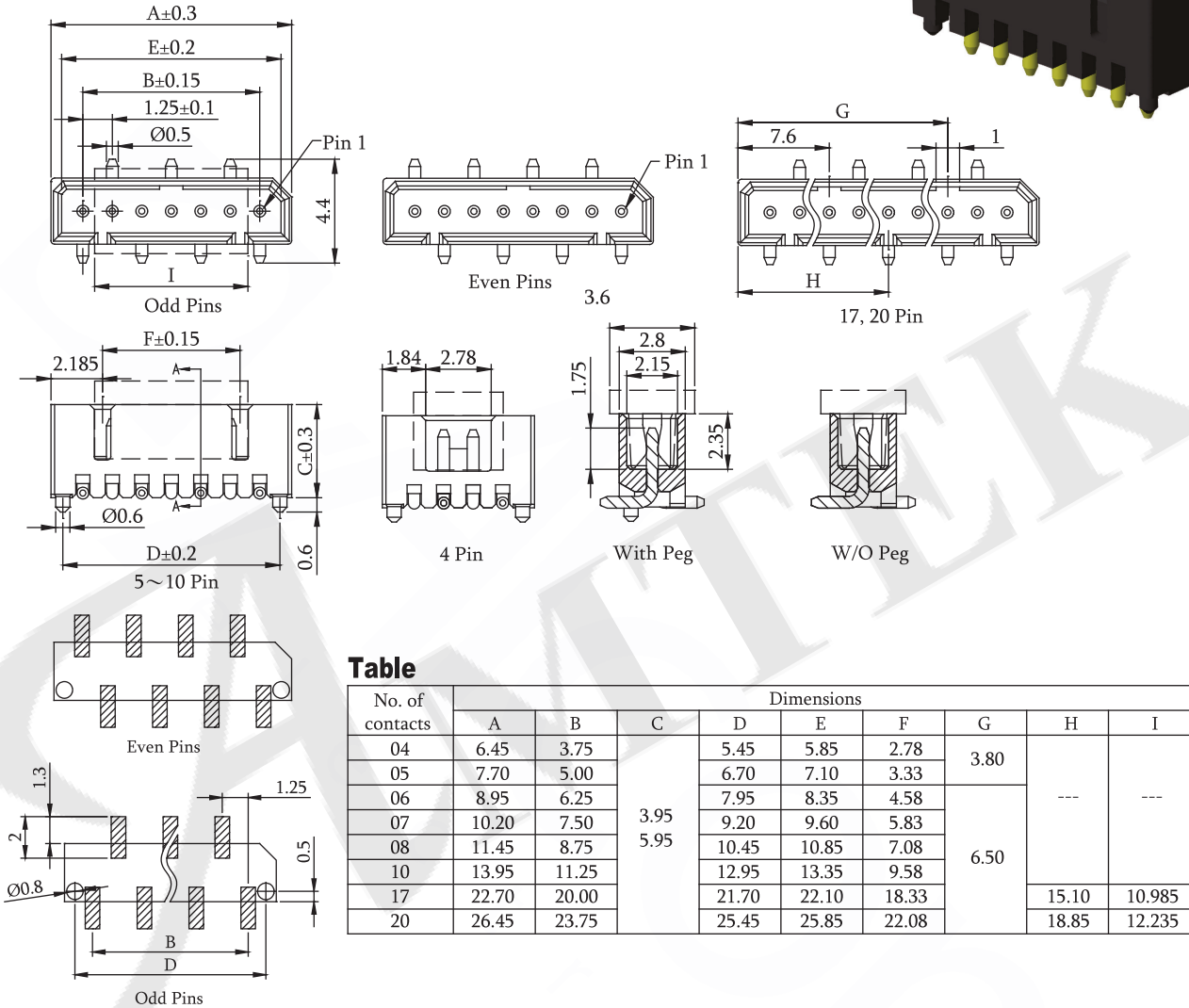
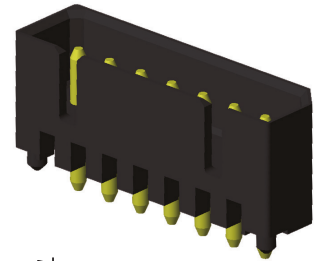
Board To Board 1.25mm Male H=3.95/5.95mm

Specifications

Current Rating: 0.5 AMP
 Insulation Resistance: 100MΩ Min.
 Contact Resistance: 20mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -25°C to +85°C

Material

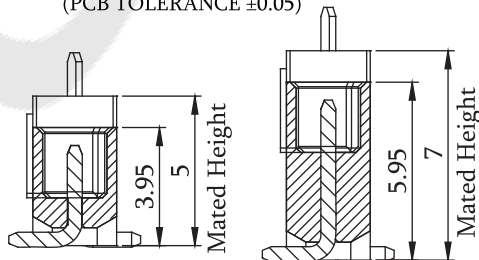
Insulator: Hi-Temp. Thermoplastic, UL 94V-0, Black
 Contact Pin: Copper Alloy



Table

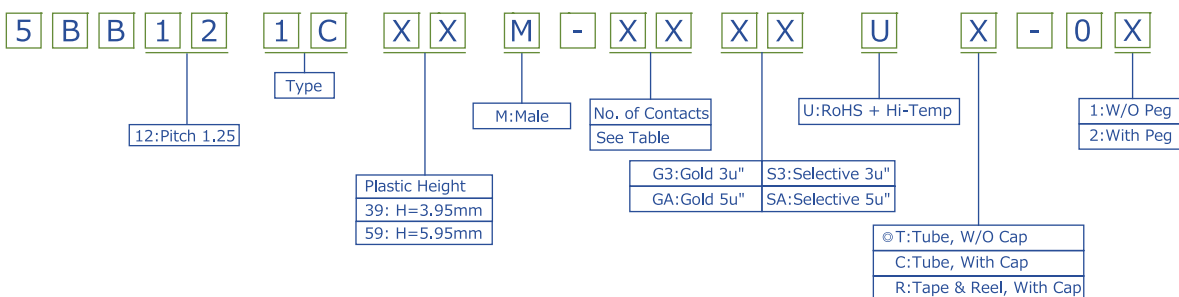
No. of contacts	Dimensions								
	A	B	C	D	E	F	G	H	I
04	6.45	3.75	3.95 5.95	5.45	5.85	2.78	3.80	---	---
05	7.70	5.00		6.70	7.10	3.33			
06	8.95	6.25		7.95	8.35	4.58			
07	10.20	7.50		9.20	9.60	5.83			
08	11.45	8.75		10.45	10.85	7.08			
10	13.95	11.25		12.95	13.35	9.58			
17	22.70	20.00	21.70	22.10	18.33	15.10	10.985		
20	26.45	23.75	25.45	25.85	22.08	18.85	12.235		

Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



Female P/N	Male P/N	Mated Height
5BB121C34F-XXXXUR-XX	5BB121C39M-XXXXUR-0X	5.0
	5BB121C59M-XXXXUR-0X	7.0

ORDER INFORMATION



⊙: Standard Recommended

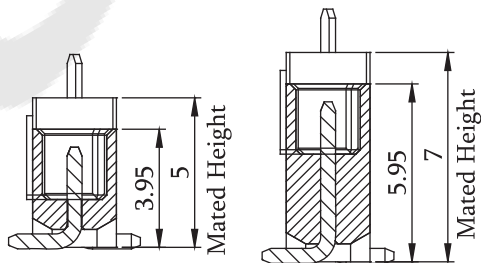
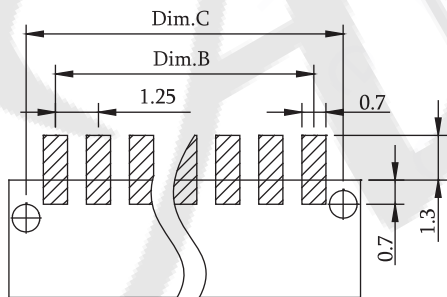
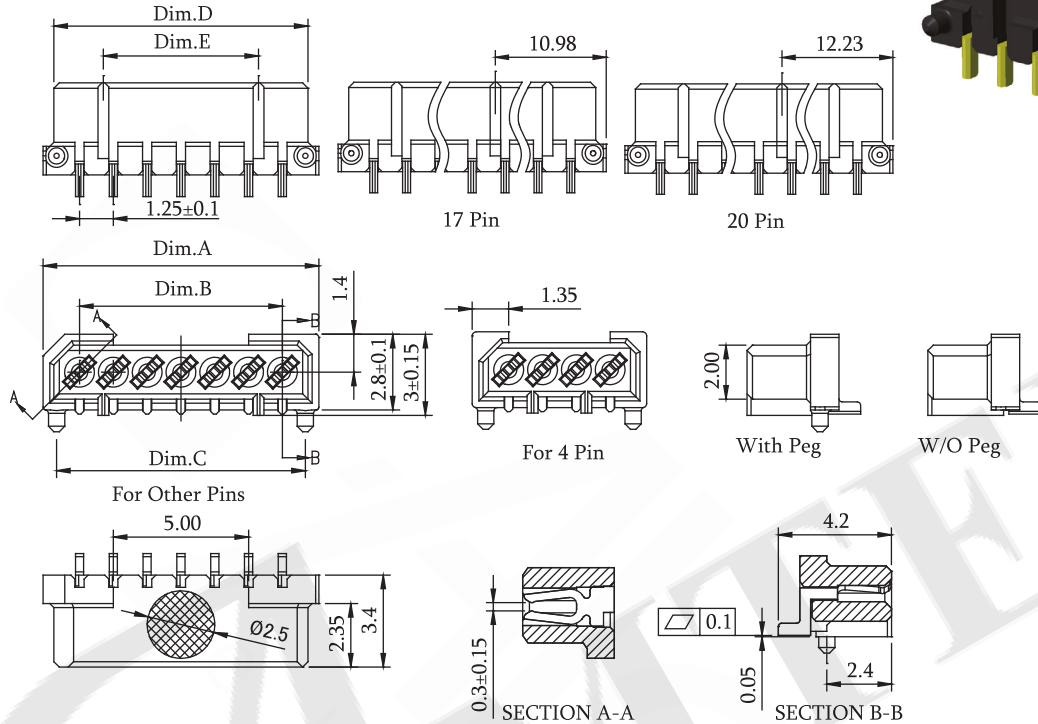
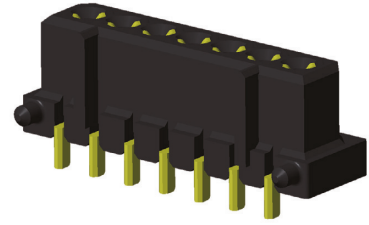
Board To Board 1.25mm Female H=3.4mm

Specifications

Current Rating: 0.5 AMP
 Insulation Resistance: 500MΩ Min.
 Contact Resistance: 20mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -25°C to +85°C

Material

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

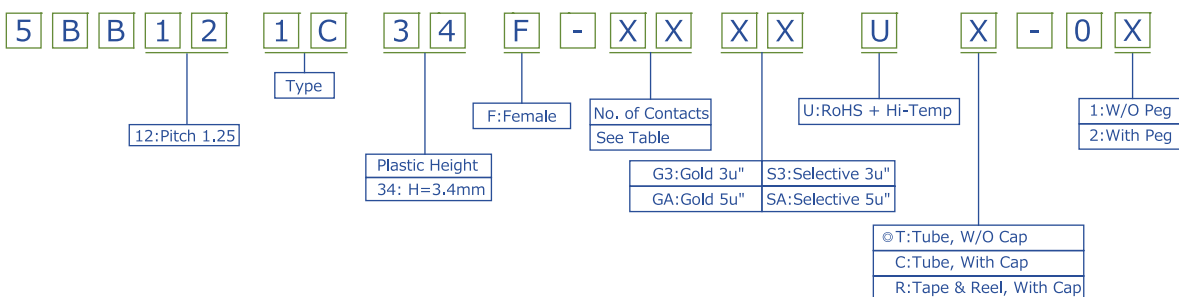


Table

No. of Contacts	Dimension(mm)				
	A	B	C	D	E
04	6.45	3.75	5.45	5.65	1.99
05	7.70	5.00	6.70	6.90	3.24
06	8.95	6.25	7.95	8.15	4.49
07	10.20	7.50	9.20	9.40	5.74
08	11.45	8.75	10.45	10.65	6.99
10	13.95	11.25	12.95	13.15	9.49
17	22.70	20.00	21.70	21.90	18.24
20	26.45	23.75	25.45	25.65	21.99

Female P/N	Male P/N	Mated Height
5BB121C34F-XXXXUR-XX	5BB121C39M-XXXXUR-0X	5.0
	5BB121C59M-XXXXUR-0X	7.0

ORDER INFORMATION



⊙: Standard Recommended

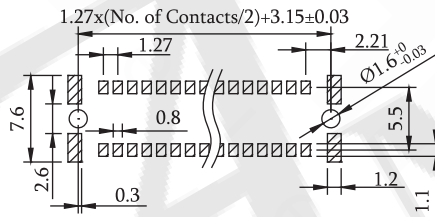
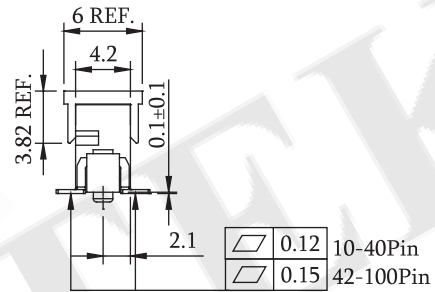
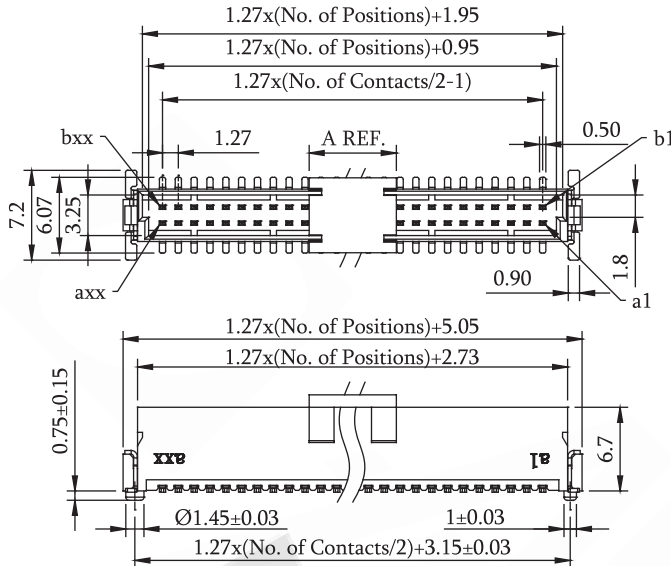
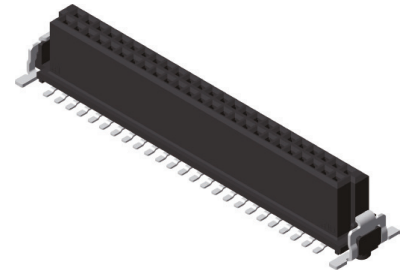
Board To Board 1.27mm Male H=6.7mm

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

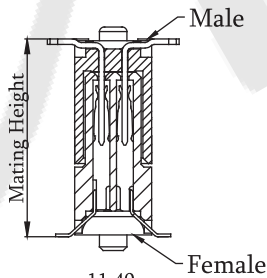
Insulator: LCP, Black
 Contact Pin: Phosphor Bronze



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

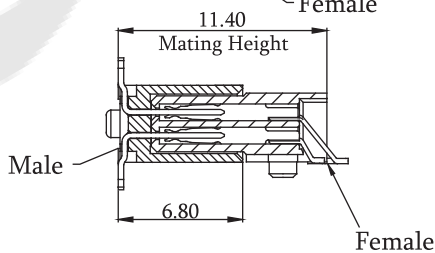
Table

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



180°

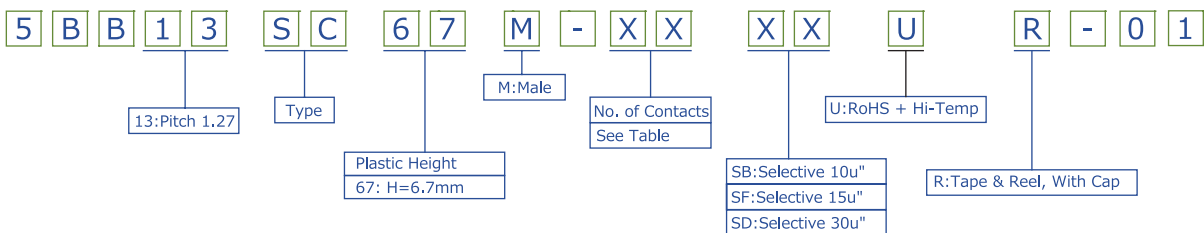
Male P/N	Female P/N	Mating Height
5BB13SC67M-XXXXUR-01	5BB13SC62F-XXXXUR-01	8
5BB13SC67M-XXXXUR-01	5BB13SC90F-XXXXUR-01	10.8
5BB13SC67M-XXXXUR-01	5BB13SC6AF-XXXXUR-01	15.45



90°

Male P/N	Female P/N	Mating Height
5BB13SC67M-XXXXUR-01	5BB13SC96G-XXXXUR-01	11.4

ORDER INFORMATION



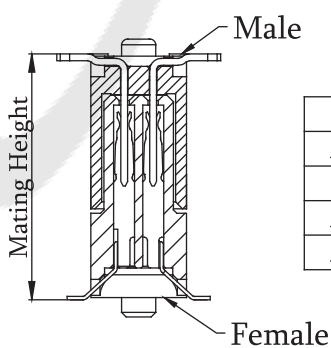
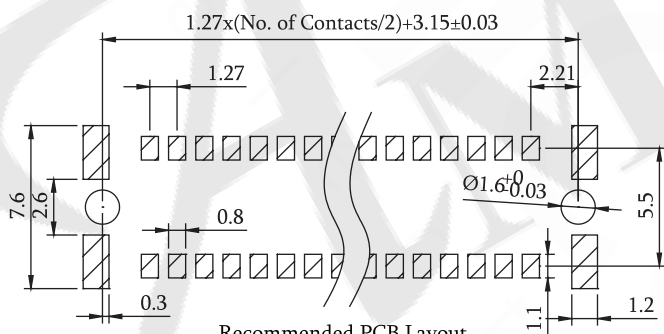
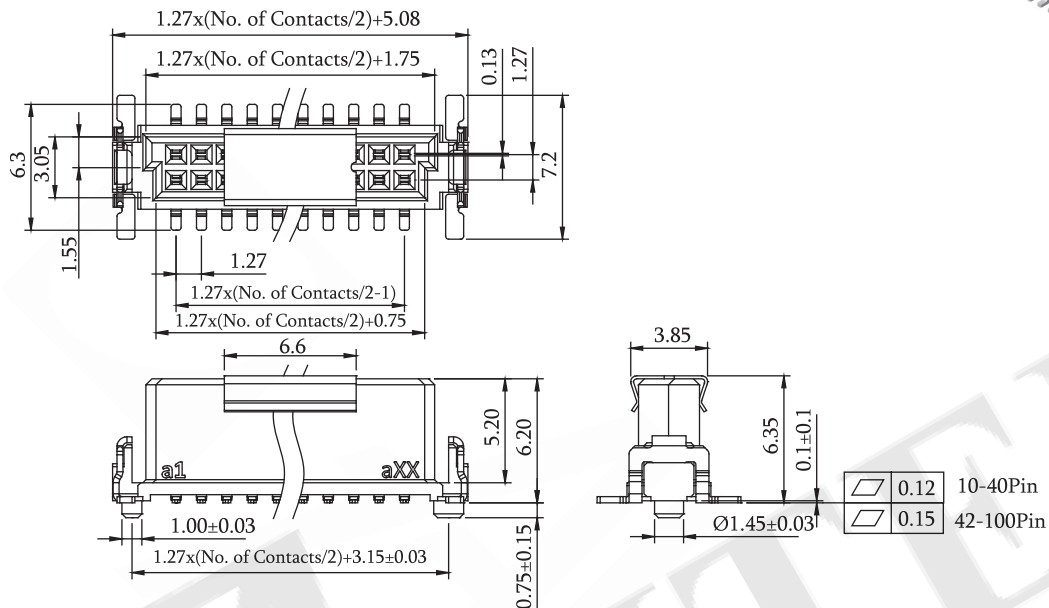
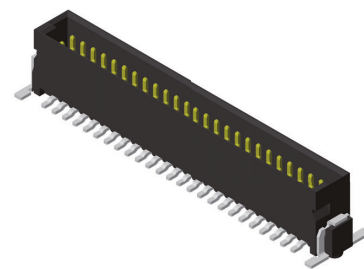
Board To Board 1.27mm Female H=6.2mm

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

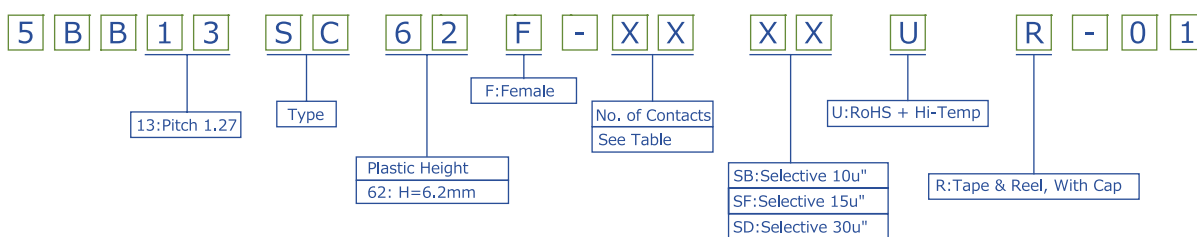
Material

Insulator: LCP, Black
 Contact Pin: Phosphor Bronze



Male P/N	Female P/N	Mating Height
5BB13SC67M-XXXXUR-01	5BB13SC62F-XXXXUR-01	8.0
5BB13SC82P-XXXXUR-01	5BB13SC62F-XXXXUR-01	9.4
5BB13SC82M-XXXXUR-01	5BB13SC62F-XXXXUR-01	9.5
5BB13SC99M-XXXXUR-01	5BB13SC62F-XXXXUR-01	11.1

ORDER INFORMATION



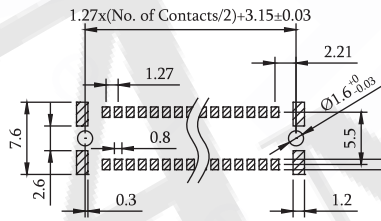
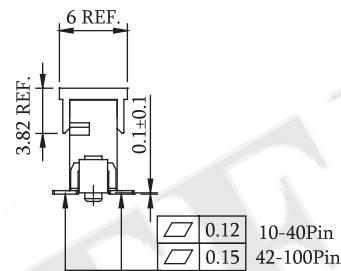
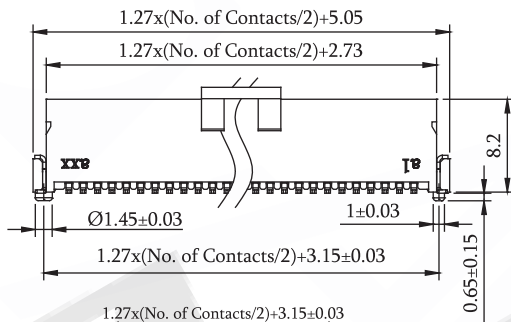
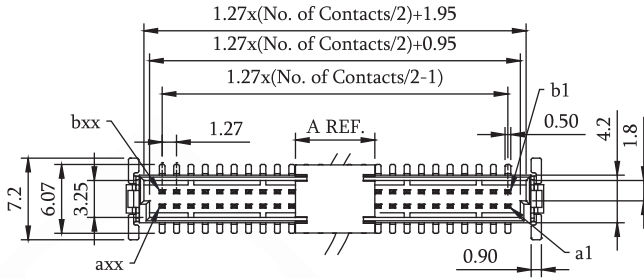
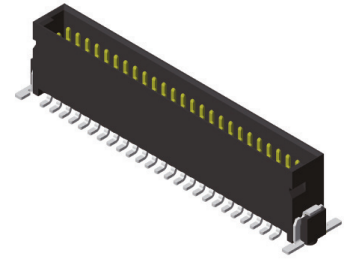
Board To Board 1.27mm Male H=8.2mm

Specifications

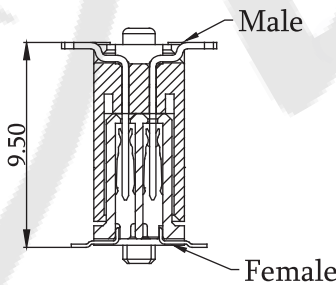
Current Rating: 0.5 to 1.0 AMP
 Insulation Resistance: 10000MΩ Min.
 Contact Resistance: 25mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -55°C to +125°C

Material

Insulator: LCP, Black
 Contact Pin: Phosphor Bronze

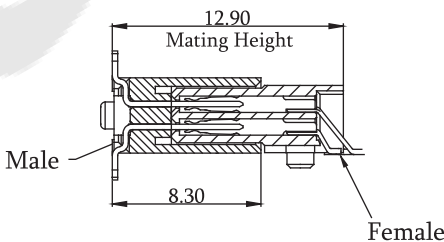


Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



180°

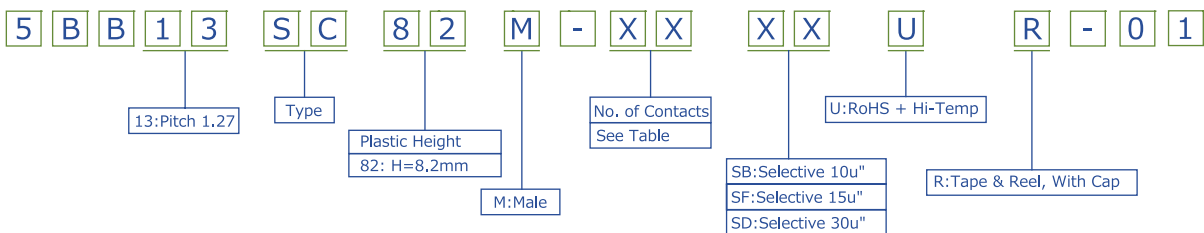
Male P/N	Female P/N	Mating Height
5BB13SC82M-XXXXUR-01	5BB13SC62F-XXXXUR-01	9.5
5BB13SC82M-XXXXUR-01	5BB13SC90F-XXXXUR-01	12.3
5BB13SC82M-XXXXUR-01	5BB13SC6AF-XXXXUR-01	16.95



90°

Male P/N	Female P/N	Mating Height
5BB13SC82M-XXXXUR-01	5BB13SC96G-XXXXUR-01	12.9

ORDER INFORMATION



◎: Standard Recommended

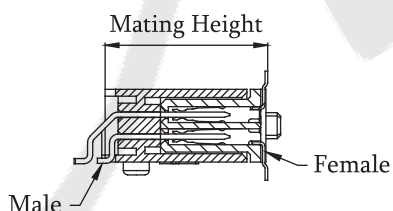
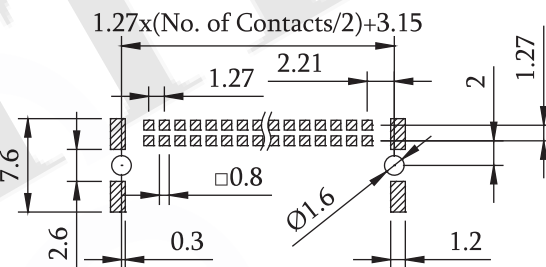
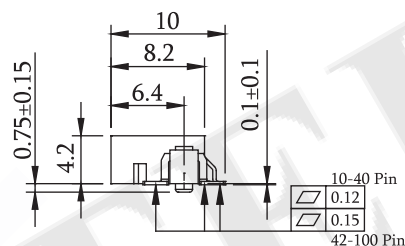
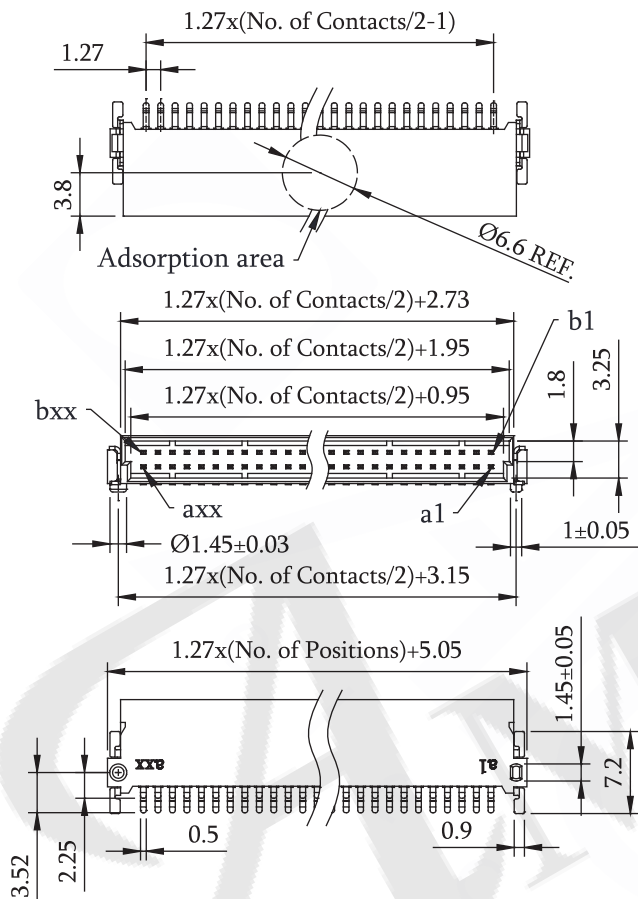
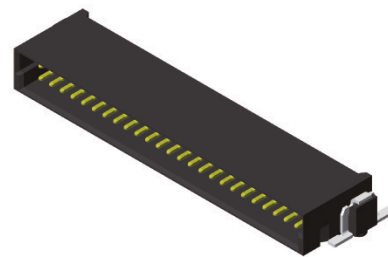
Board To Board 1.27mm Male SMT R/A H=8.2mm

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

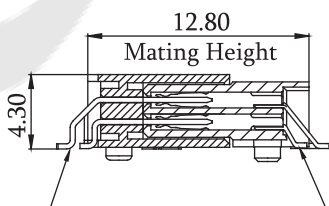
Material

Insulator: LCP, Black
 Contact Pin: Phosphor Bronze



180°

Male P/N	Female P/N	Mating Height
5BB13SC82P-XXXXUR-01	5BB13SC62F-XXXXUR-01	9.4
5BB13SC82P-XXXXUR-01	5BB13SC90F-XXXXUR-01	12.2
5BB13SC82P-XXXXUR-01	5BB13SC96G-XXXXUR-01	12.8
5BB13SC82P-XXXXUR-01	5BB13SC6AF-XXXXUR-01	16.85

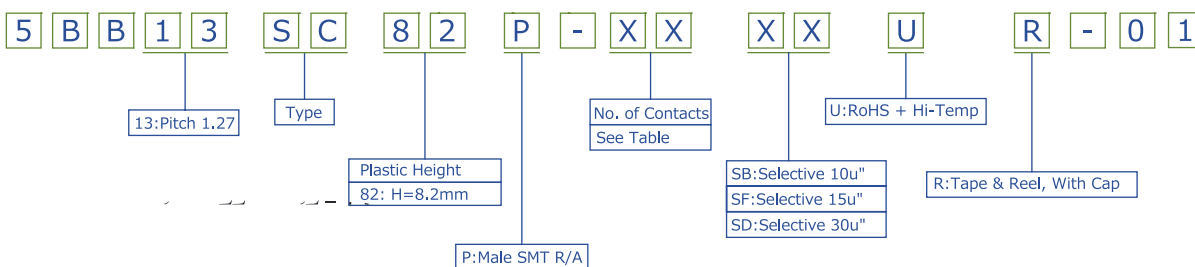


90°

Male P/N	Female P/N	Mating Height
5BB13SC82P-XXXXUR-01	5BB13SC96G-XXXXUR-01	12.8

Male 5BB13SC96G-XXXXUR-01

ORDER INFORMATION



©: Standard Recommended

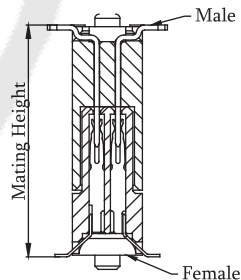
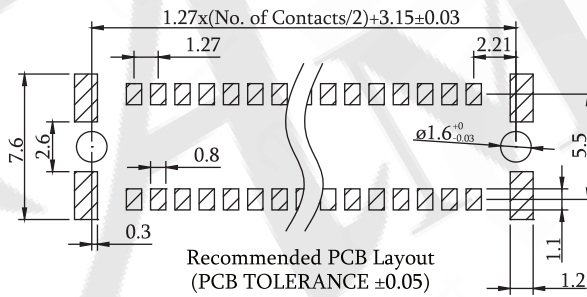
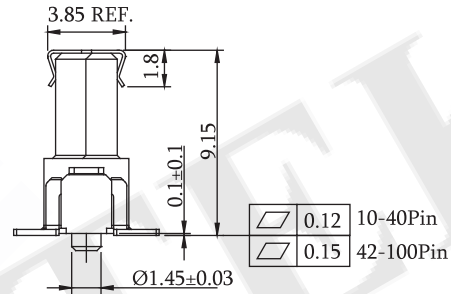
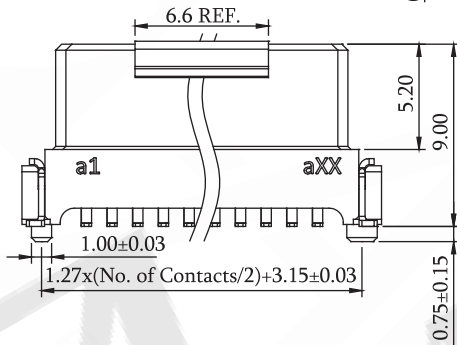
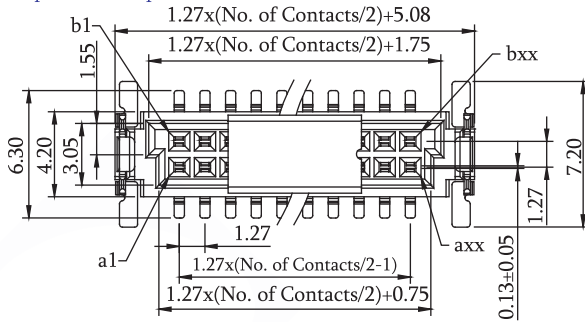
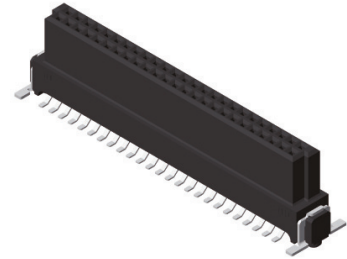
Board To Board 1.27mm Female H=9.0mm

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

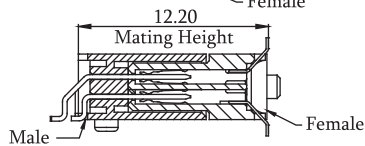
Material

Insulator: LCP, Black
 Contact Pin: Phosphor Bronze



180°

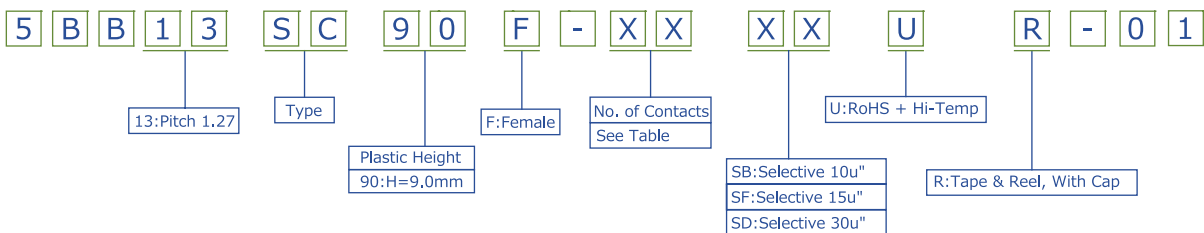
Male P/N	Female P/N	Mating Height
5BB13SC67M-XXXXUR-01	5BB13SC90F-XXXXUR-01	10.8
5BB13SC82M-XXXXUR-01	5BB13SC90F-XXXXUR-01	12.3
5BB13SC99M-XXXXUR-01	5BB13SC90F-XXXXUR-01	13.9



90°

Male P/N	Female P/N	Mating Height
5BB13SC82P-XXXXUR-01	5BB13SC90F-XXXXUR-01	12.2

ORDER INFORMATION



◎:Standard Recommended

Board To Board 1.27mm



RoHS

AMTEK CONNECTORS MANUFACTURE

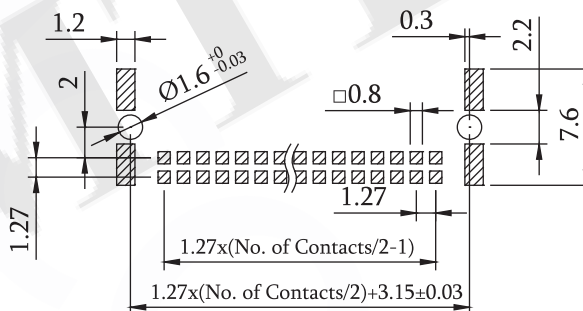
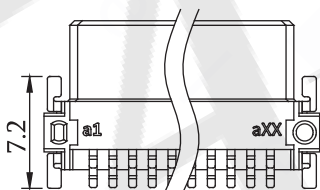
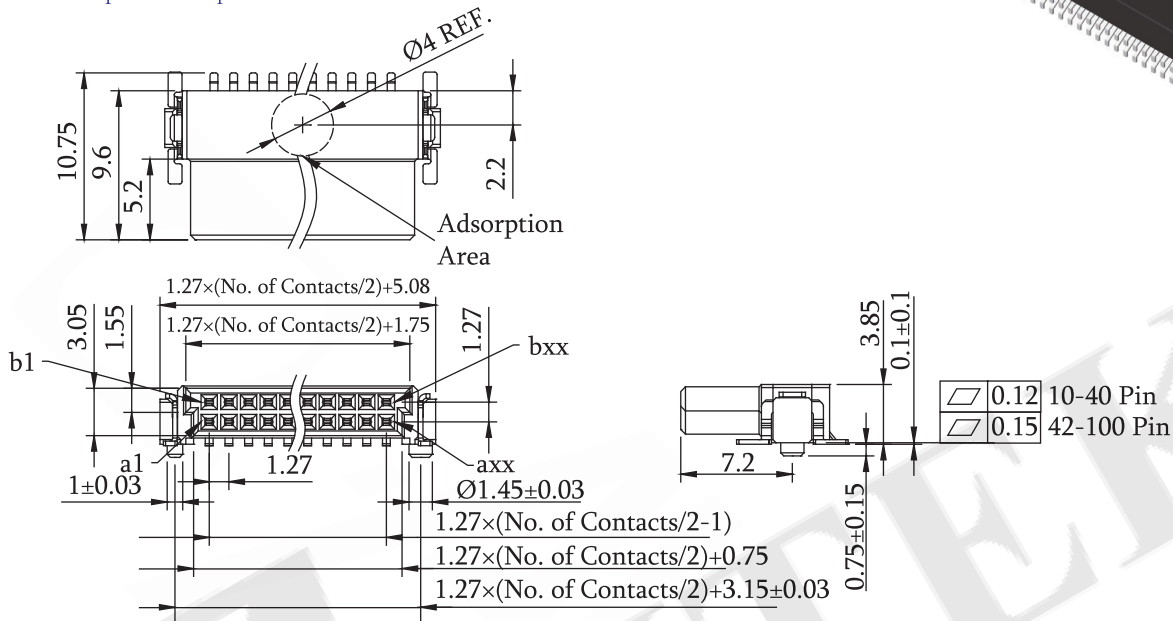
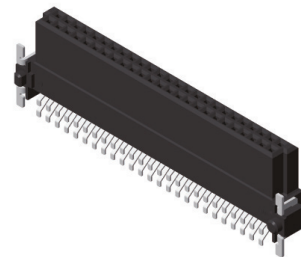
Board To Board 1.27mm Female SMT R/A H=9.6mm

Specifications

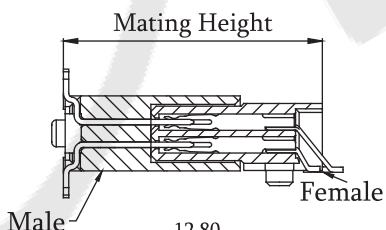
Current Rating: 0.5 to 1.0 AMP
 Insulation Resistance: 10000MΩ Min.
 Contact Resistance: 25mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -55°C to +125°C

Material

Insulator: LCP, Black
 Contact Pin: Phosphor Bronze

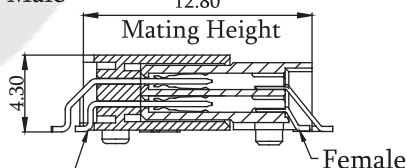


Recommended PCB Layout
 (PCB TOLERANCE ±0.05)



180°

Male P/N	Female P/N	Mating Height
5BB13SC67M-XXXXUR-01	5BB13SC96G-XXXXUR-01	11.4
5BB13SC82M-XXXXUR-01	5BB13SC96G-XXXXUR-01	12.9
5BB13SC99M-XXXXUR-01	5BB13SC96G-XXXXUR-01	14.5

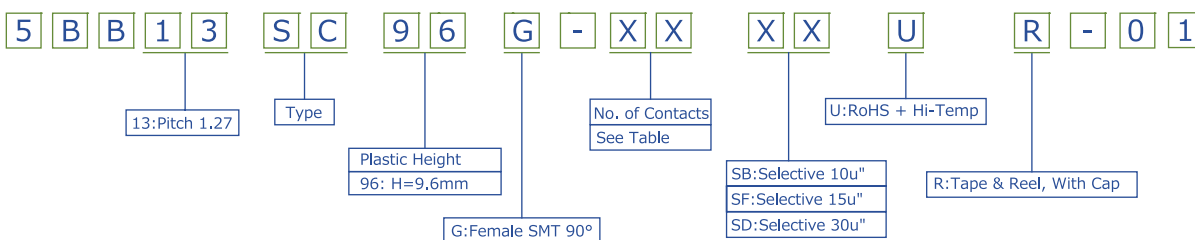


90°

Male P/N	Female P/N	Mating Height
5BB13SC82P-XXXXUR-01	5BB13SC96G-XXXXUR-01	12.8

5BB13SC82P-XXXXUR-01

ORDER INFORMATION



◎: Standard Recommended



CONNECTORS MANUFACTURE

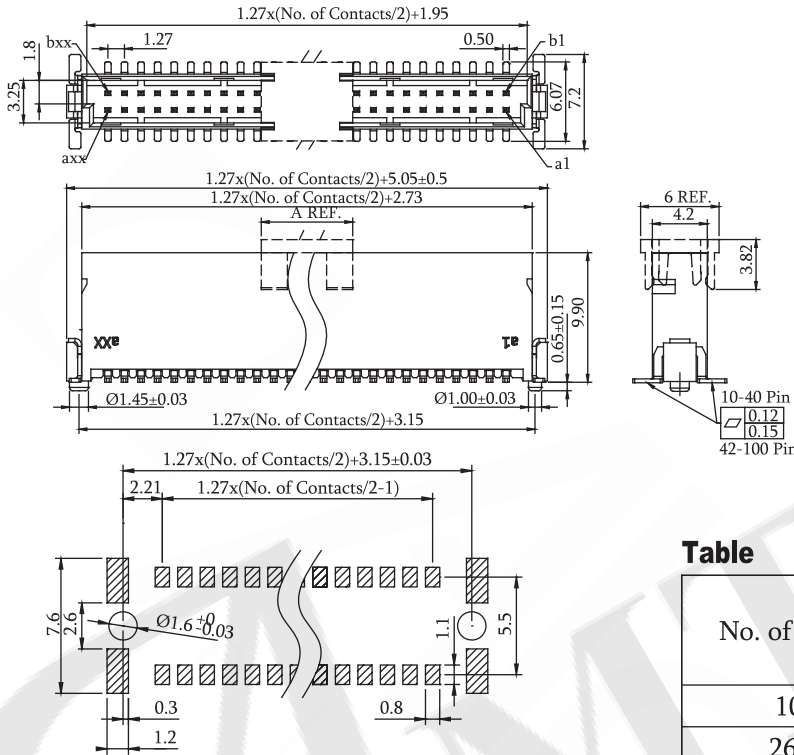
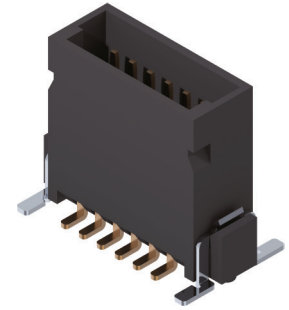
Board To Board 1.27mm Male H=9.9mm

Specifications

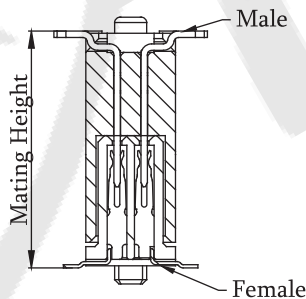
Current Rating: 0.5 to 1.0 AMP
 Insulation Resistance: 10000MΩ Min.
 Contact Resistance: 25mΩ Max.
 Dielectric Voltage: 500V AC for one minute
 Operation Temperature: -55°C to +125°C

Material

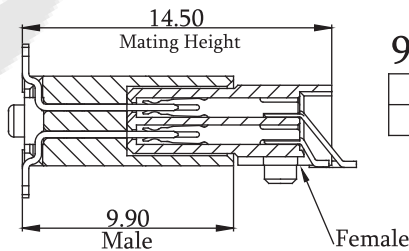
Insulator: LCP, Black
 Contact Pin: Phosphor Bronze



Recommended PCB Layout
 (PCB TOLERANCE ±0.05)

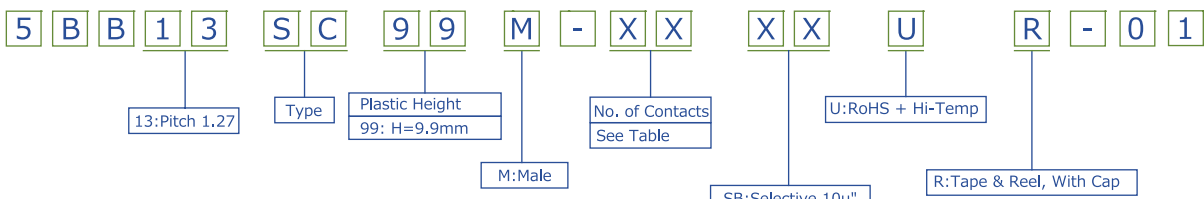


Male P/N	Female P/N	Mating Height
5BB13SC99M-XXXXUR-01	5BB13SC62F-XXXXUR-01	11.1
5BB13SC99M-XXXXUR-01	5BB13SC90F-XXXXUR-01	13.9
5BB13SC99M-XXXXUR-01	5BB13SC6AF-XXXXUR-01	18.6



Male P/N	Female P/N	Mating Height
5BB13SC99M-XXXXUR-01	5BB13SC96G-XXXXUR-01	14.5

ORDER INFORMATION



Board To Board 1.27mm



ROHS

AMTEK MANUFACTURING