

# Board To Board Connectors

---

1-1 ~ 1-4

• Board To Board 0.4mm

1-5 ~ 1-6

• Board To Board 0.5mm

1-7 ~ 1-8

• Board To Board 0.635mm

1-9 ~ 1-18

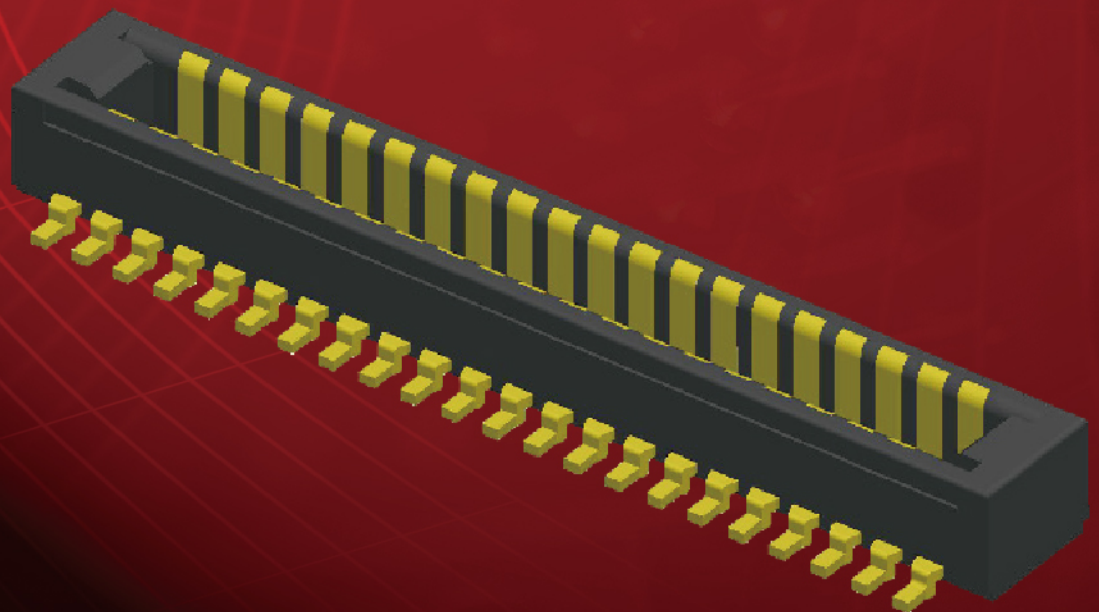
• Board To Board 0.8mm

1-19 ~ 1-20

• Board To Board 1.25mm

1-21 ~ 1-29

• Board To Board 1.27mm



**AMTEK Technology Co., Ltd**

# CONNECTORS MANUFACTURER



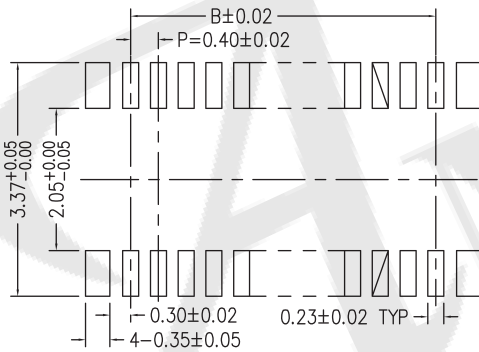
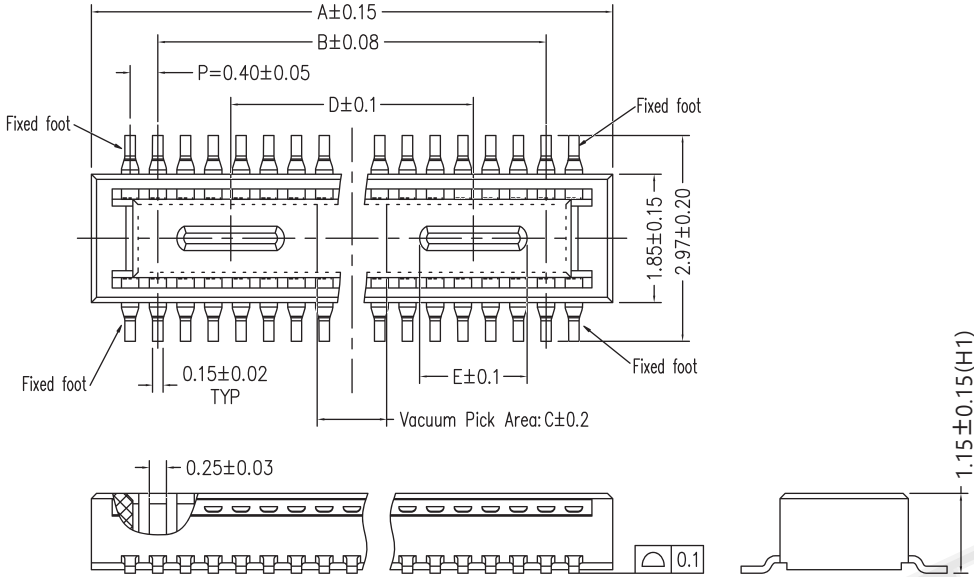
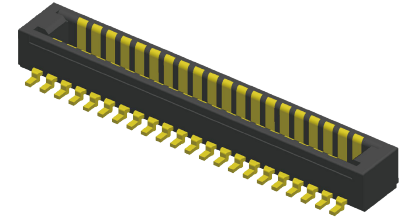
## Board To Board 0.4mm Male H=1.15mm

### Specifications

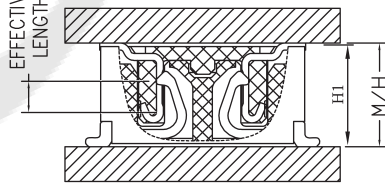
Current Rating: 0.3 AMP  
 Insulation Resistance: 50MΩ Min.  
 Contact Resistance: 90mΩ Max.  
 Withstand Voltage: 100V AC  
 Operation Temperature: -35°C to +85°C

### Material

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



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)

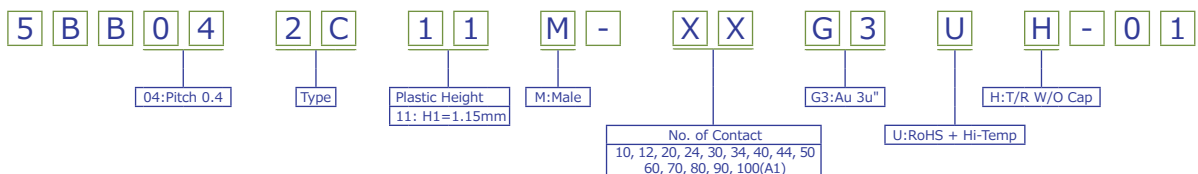


Mated Height

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	23.3	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	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



◎: Standard Recommended

Board To Board 0.4mm

ROHS

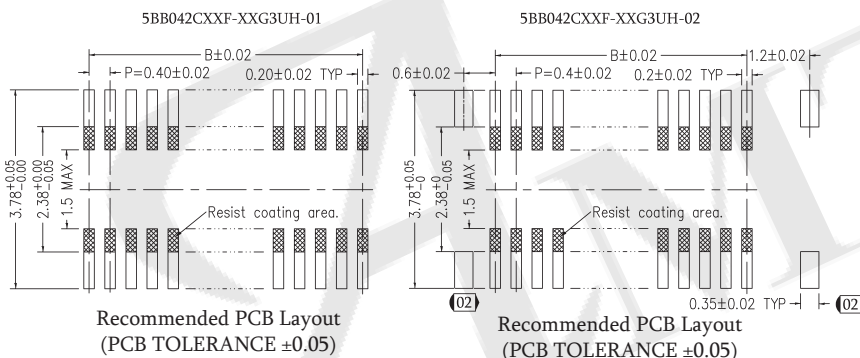
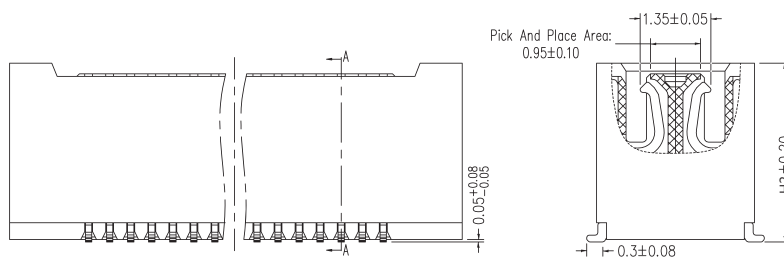
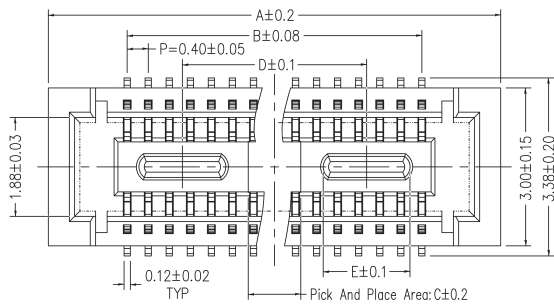
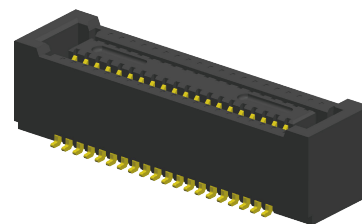
## Board to Board 0.4mm Female H=1.45/1.95/2.4/2.9/3.4/3.9mm

### Specifications

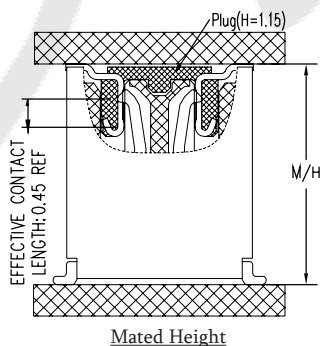
Current Rating: 0.3 AMP  
 Insulation Resistance: 50MΩ Min.  
 Contact Resistance: 90mΩ Max.  
 Withstand Voltage: 100V AC  
 Operation Temperature: -35°C to +85°C

### Material

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

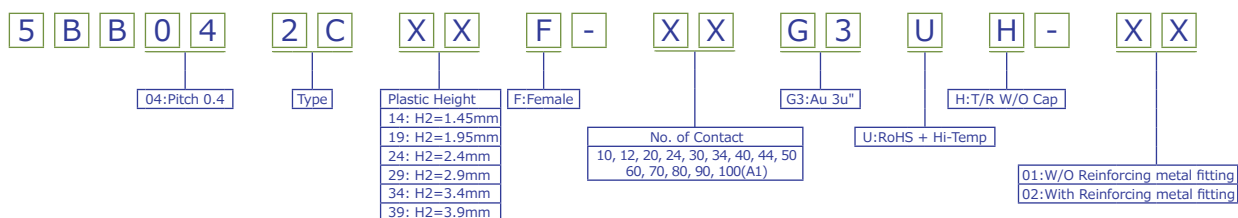


No. of Contacts	Dimensions				
	A	B	C	D	E
10	4.60	1.60	1.0	---	---
12	5.00	2.00	1.0	---	---
20	6.60	3.60	1.0	2.45	1.05
24	7.40	4.40	1.0	2.55	1.05
30	8.60	5.60	1.5	3.50	1.65
34	9.40	6.40	2.3	4.30	1.65
40	10.60	7.60	3.2	5.25	1.65
44	11.40	8.40	3.2	5.25	1.65
50	12.60	9.60	3.2	5.45	1.65
60	14.60	11.60	3.2	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	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



# CONNECTORS MANUFACTURER

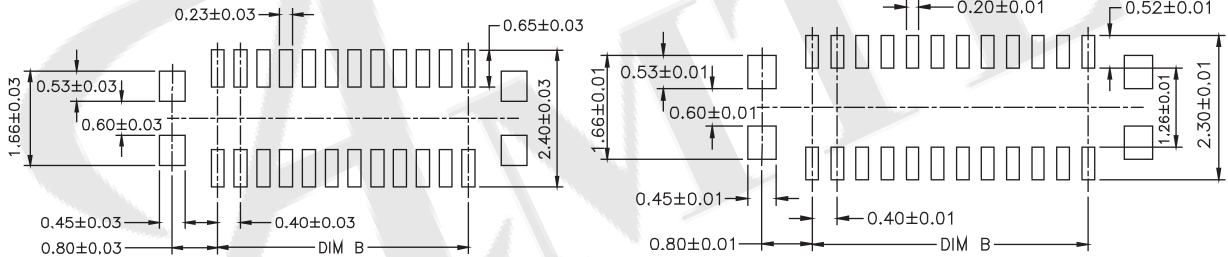
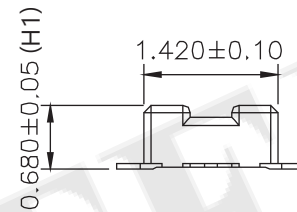
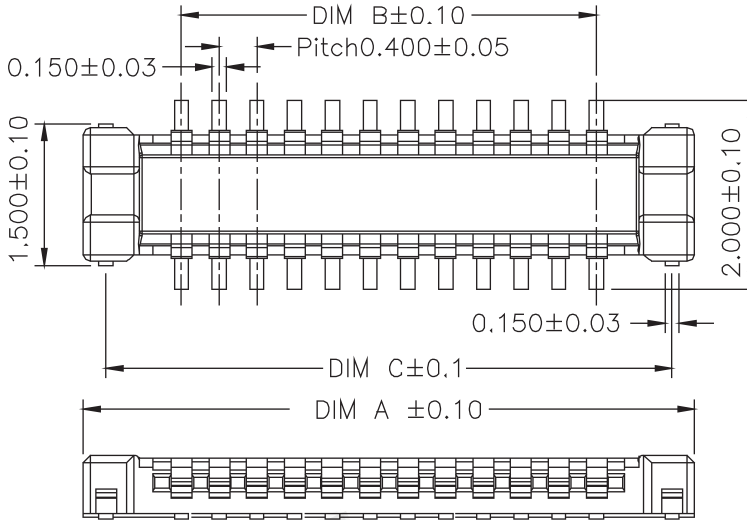
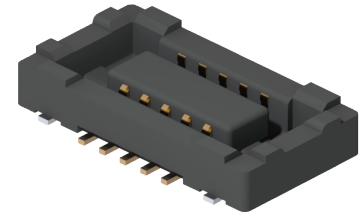
## Board To Board 0.4mm Male H=0.68mm

### 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

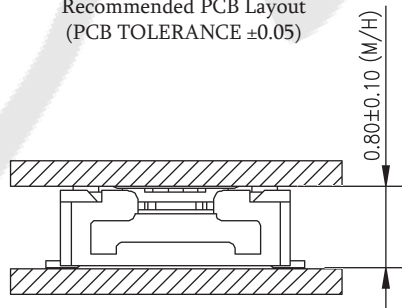
### Material

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



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

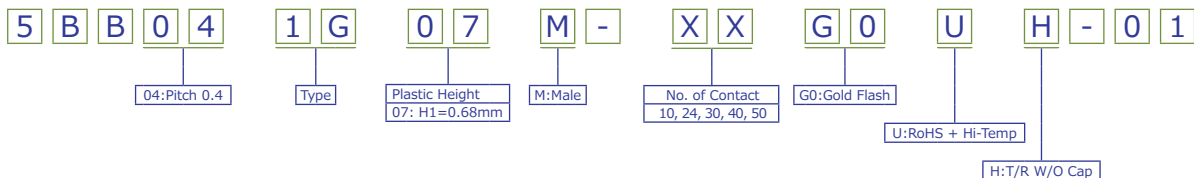
Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height

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

CONNECTORS MANUFACTURER



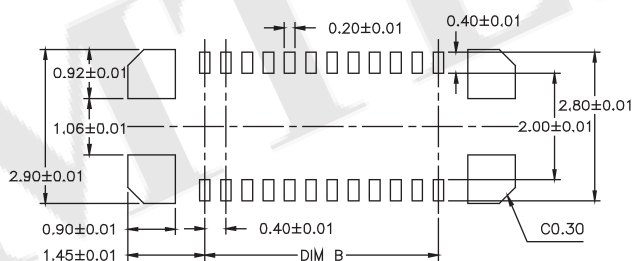
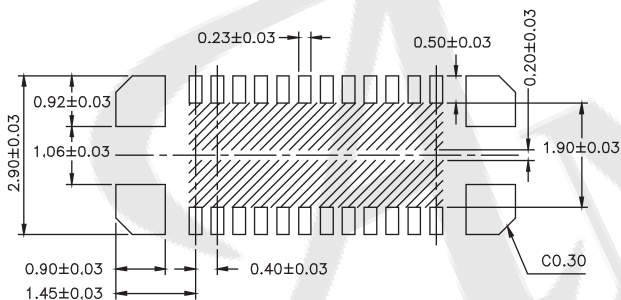
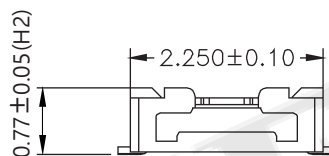
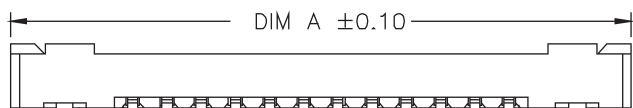
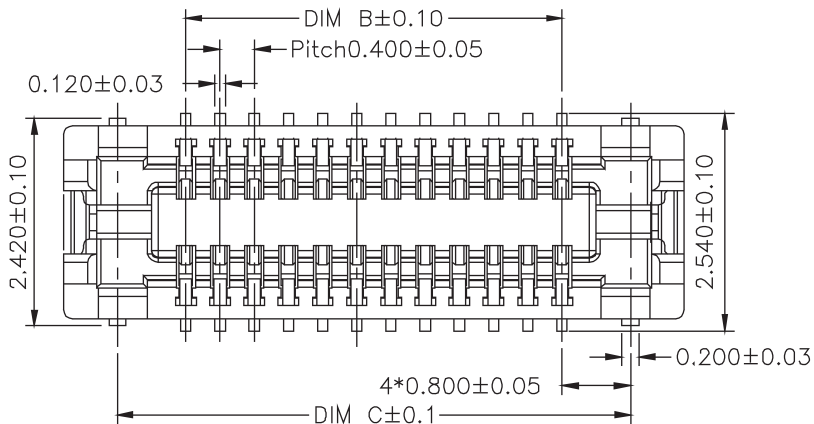
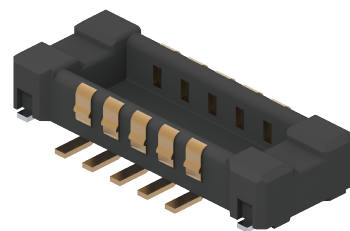
## Board To Board 0.4mm Female H=0.77mm

### 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

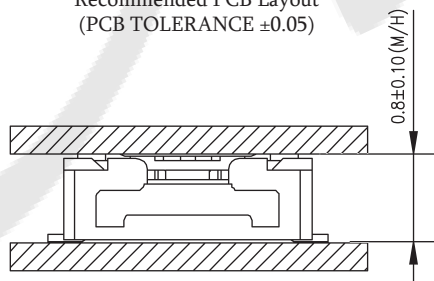
### Material

Housing: Hi-Temp Thermoplastic, UL94 V-0, Black  
 Contact Pin: Copper Alloy  
 GND terminal: Stainless Steel



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

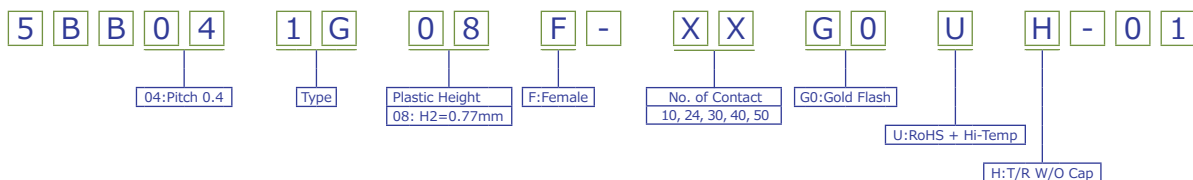
Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height

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



# CONNECTORS MANUFACTURER



Board To Board 0.5mm

ROHS

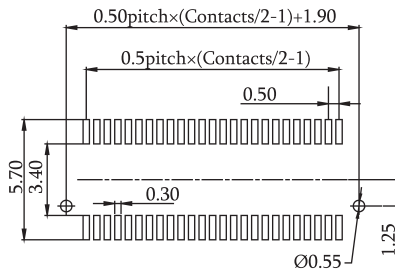
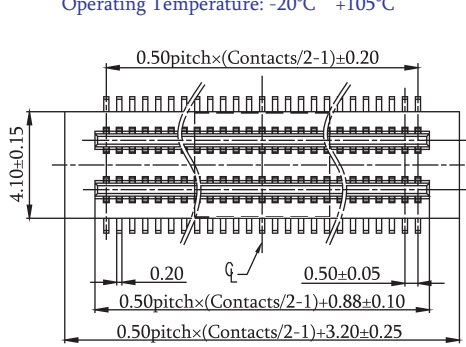
## Board To Board 0.5mm Male H=0.8/1.0/1.5/2.0mm

### Specifications

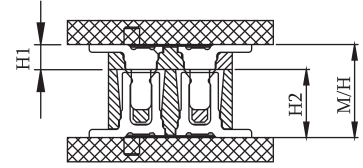
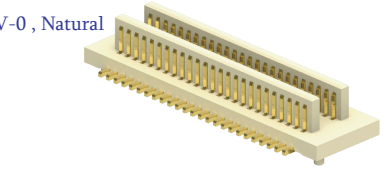
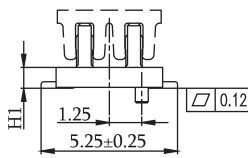
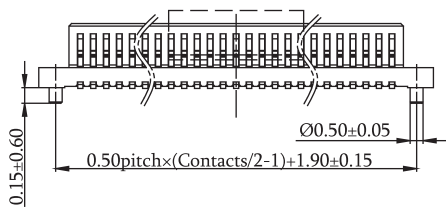
Current Rating: 0.5A  
 Voltage Rating: 50V AC/DC  
 Contact Resistance: 50mΩ Max.  
 Insulator Resistance: 100MΩ Min.  
 Operating Temperature: -20°C ~ +105°C

### Material

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



Recommended PCB Layout  
(PCB TOLERANCE  $\pm 0.05$ )

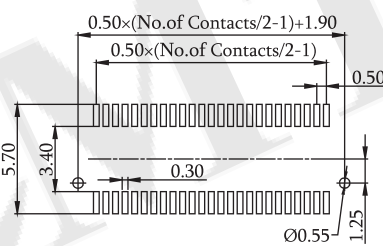
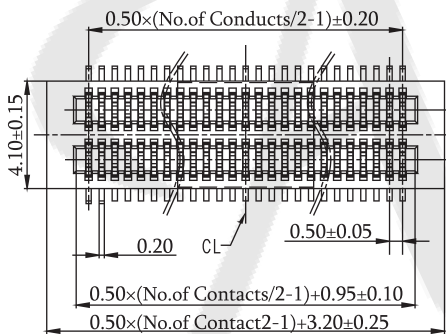


Mated Height

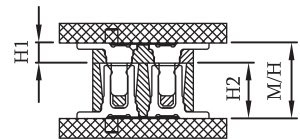
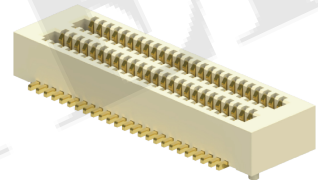
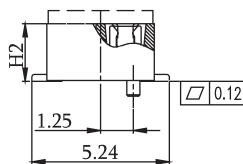
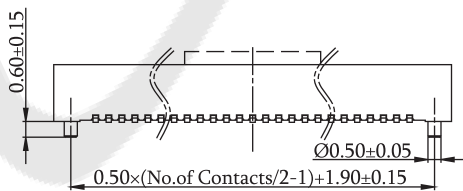
Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0	0.8	2.2
3.5		2.7
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	4.0
5.5	1.5	
6.0	2.0	4.5
6.5		4.5

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  $\pm 0.05$ )

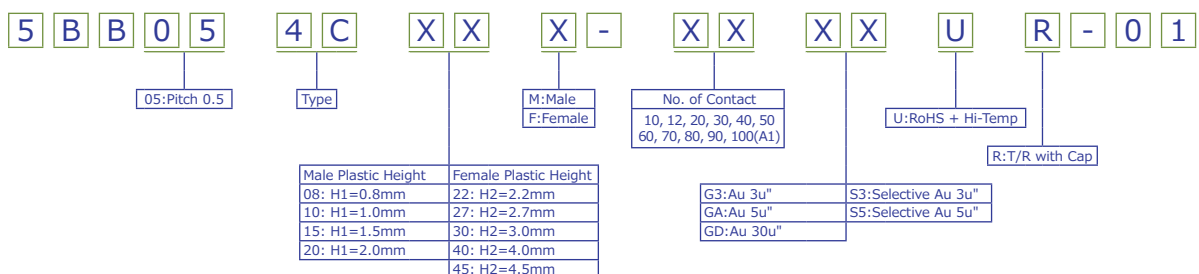


Mated Height

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	4.0
5.5	1.5	
6.0	2.0	4.5
6.5		4.5

P/N.:5BB054CXXF

## ORDER INFORMATION



©: Standard Recommended

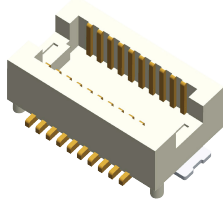
## Board To Board 0.5mm Male H=2.2/2.7/4.8mm

### Specifications

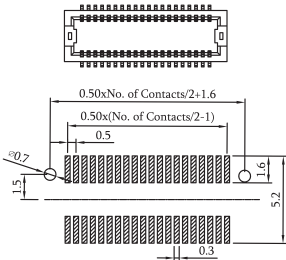
- Current Rating: 0.5A
- Contact Resistance: 30mΩ Max.
- Insulation Resistance: 100MΩ Min.
- Dielectric Voltage: 100V AC for one minute
- Operating Temperature: -20°C ~ +105°C

### Material

- Insulator: Nylon 9T, UL 94V-0, White
- Contact Pin: Copper Alloy

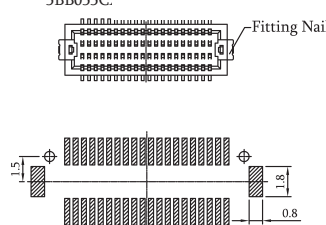


5BB05CXXM-XXXXUX-01



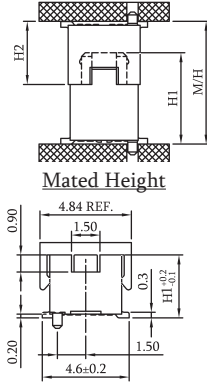
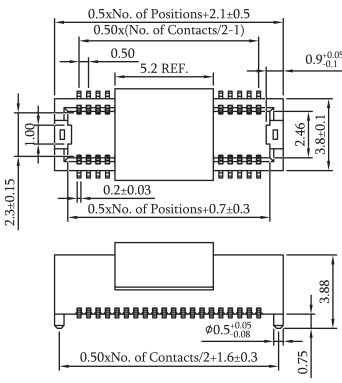
Recommended PCB Layout (PCB TOLERANCE ±0.05)

5BB055C



Recommended PCB Layout (PCB TOLERANCE ±0.05)

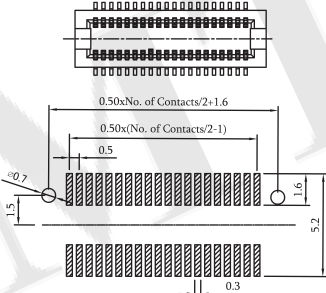
Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0	2.3	2.2
3.5	2.8	
4.0	2.8	
4.5	3.3	
5.0	3.8	
5.5	4.3	2.7
6.0	4.8	
6.5	3.3	4.8
7.0	3.8	
7.5	4.3	
8.0	4.8	



P/N.:5BB055CXXM

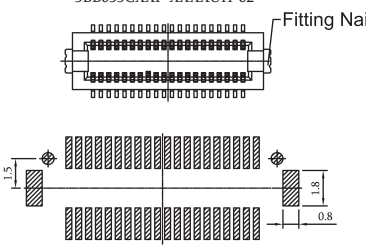
## Board To Board 0.5mm Female H=2.3/2.8/3.3/3.8/4.3/4.8mm

5BB05CXXF-XXXXUH-01

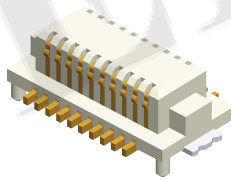


Recommended PCB Layout (PCB TOLERANCE ±0.05)

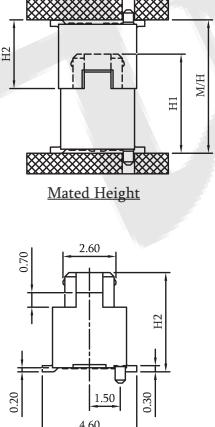
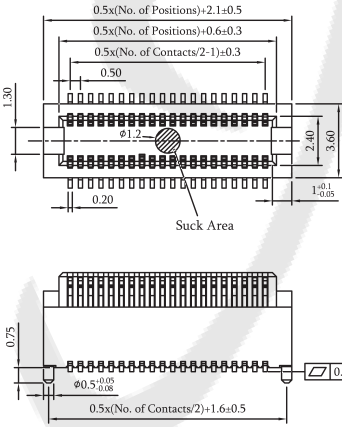
5BB05CXXF-XXXXUH-02



Recommended PCB Layout (PCB TOLERANCE ±0.05)



Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0	2.3	2.2
3.5	2.8	
4.0	2.8	
4.5	3.3	
5.0	3.8	
5.5	4.3	2.7
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 Contact 14, 20, 24, 30, 32, 36, 40, 50, 60			U: RoHS + Nylon 9T		01: W/O Fitting Nail 02: With Fitting Nail					
Male Plastic Height				Female Plastic Height				G3: Au 3u"				R: T/R With Cap H: T/R W/O Cap							
23: H1=2.3mm				22: H2=2.2mm				GB: Au 10u"											
28: H1=2.8mm				27: H2=2.7mm				GF: Au 15u"											
33: H1=3.3mm				48: H2=4.8mm				GD: Au 30u"											
38: H1=3.8mm								GH: Au 50u"											
43: H1=4.3mm																			
48: H1=4.8mm																			

©: Standard Recommended

# CONNECTORS MANUFACTURER

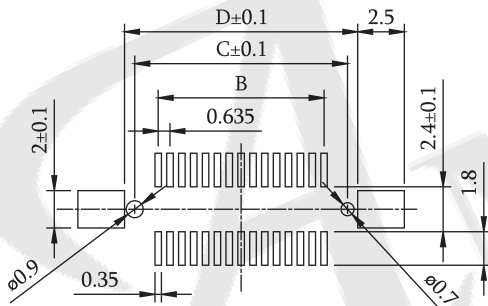
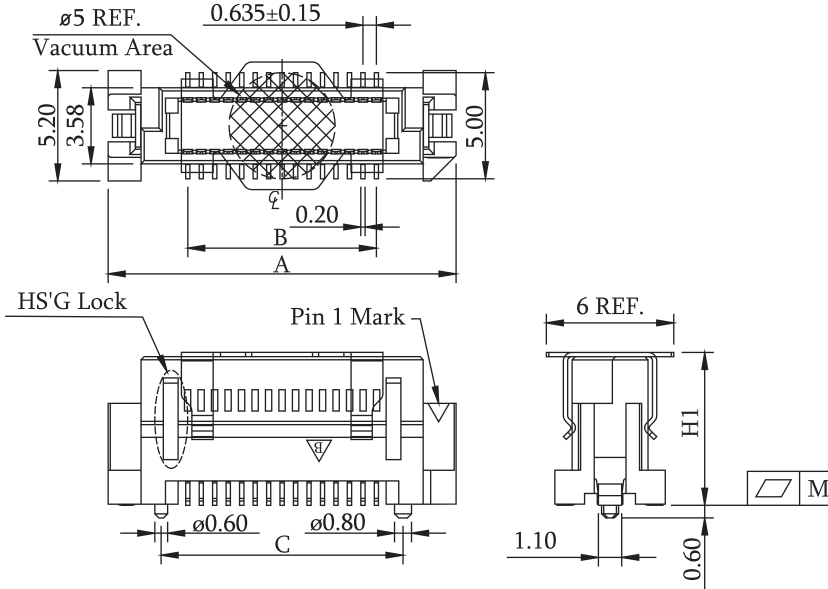
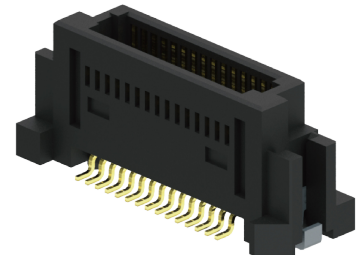
## Board to Board 0.635mm Male H=5.0/6.0/7.0/8.0/9.0mm

### Specifications

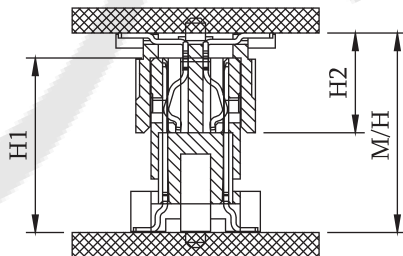
Current Rating: 0.5A  
 Contact Resistance: See Table 2  
 Insulator Resistance: 1000MΩ Min.  
 Dielectric Voltage: 250V AC for one minute  
 Operating Temperature: -55°C ~ +85°C

### 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.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

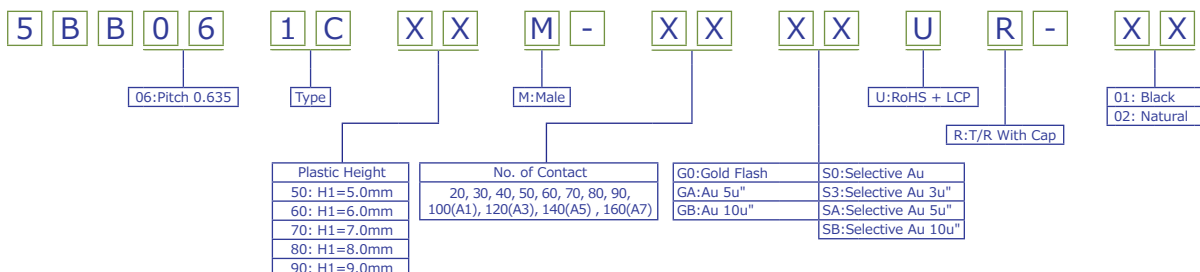


Mated Height

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	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	

## ORDER INFORMATION



◎: Standard Recommended

Board To Board 0.635mm

ROHS



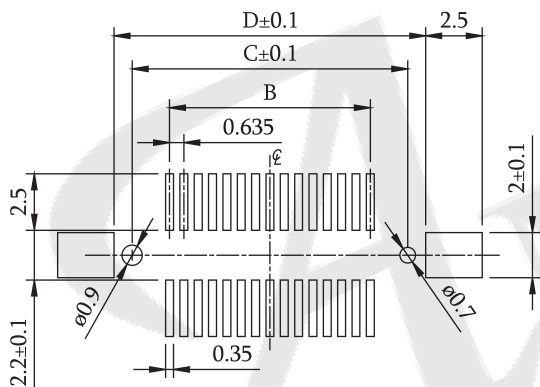
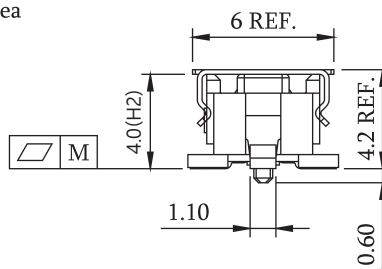
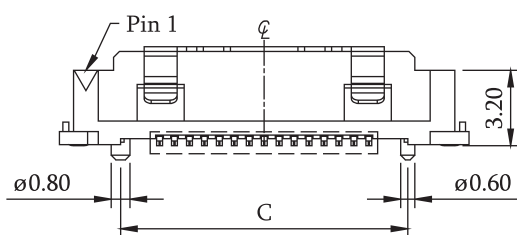
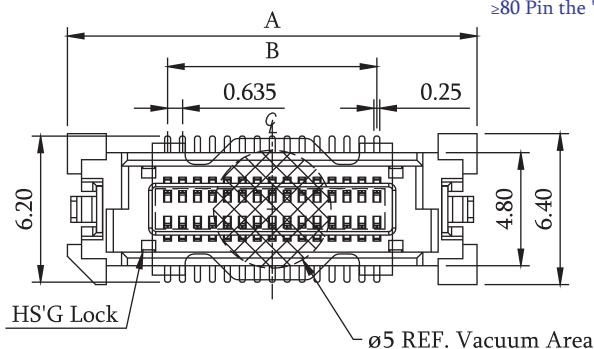
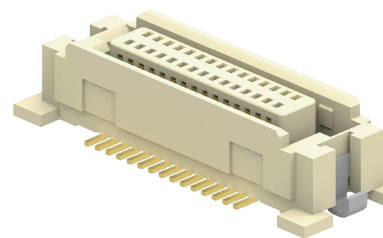
## Board to Board 0.635mm Female H=4.0mm

### Specifications

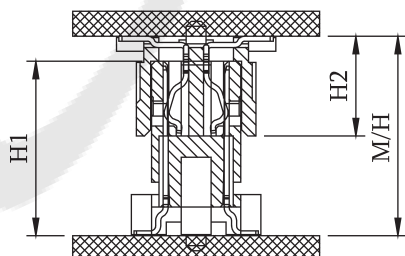
Current Rating: 0.5A  
 Contact Resistance: See Table 1  
 Insulator Resistance: 1000MΩ min.  
 Dielectric Voltage: AC 250V for one minute  
 Operating Temperature: -55°C ~ +85°C

### 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.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

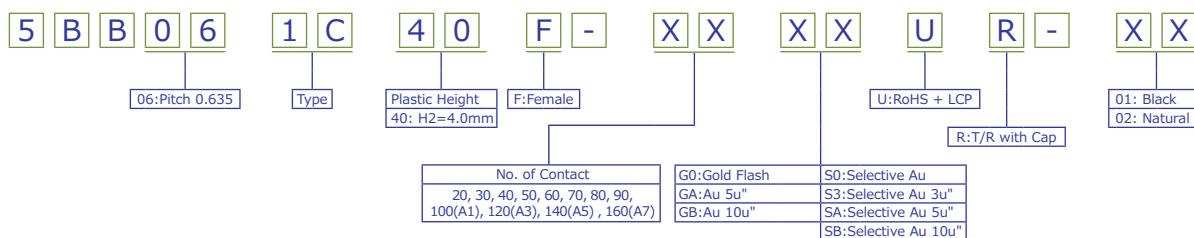


Mated Height

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	
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	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	

## ORDER INFORMATION



# CONNECTORS MANUFACTURER

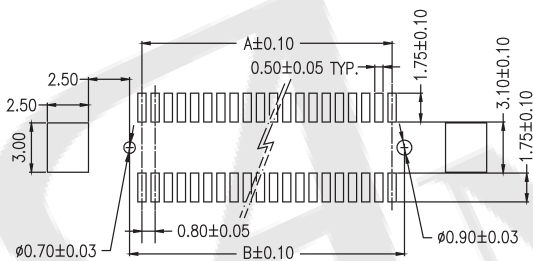
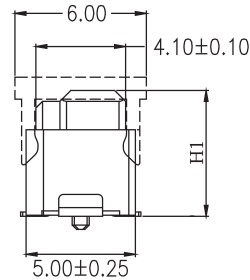
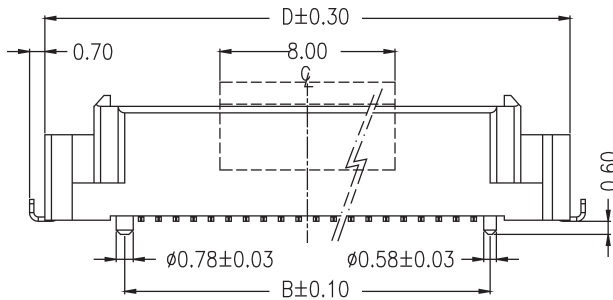
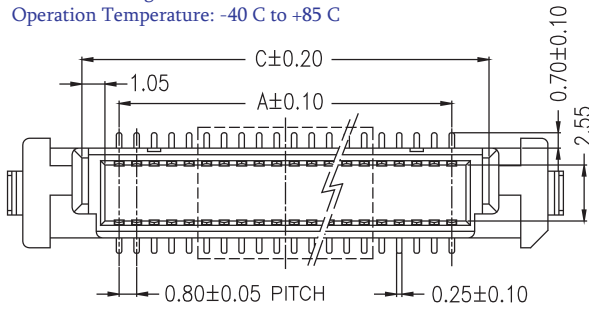
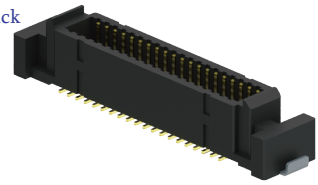
## Board To Board 0.8mm Male H=6.55/9.55/12.55mm

### Specifications

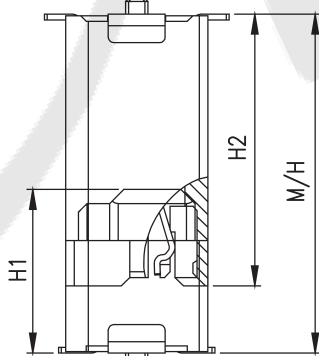
Current Rating: 0.5 AMP  
 Voltage Rating: 200V AC / 300V DC  
 Insulation Resistance: 100MΩ Min.  
 Contact Resistance: 70mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -40 C to +85 C

### Material

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



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)

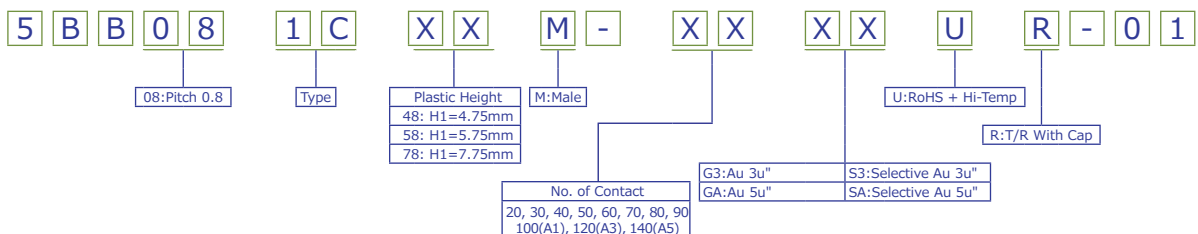


Mated Height

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	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



©: Standard Recommended

Board To Board 0.8mm

ROHS

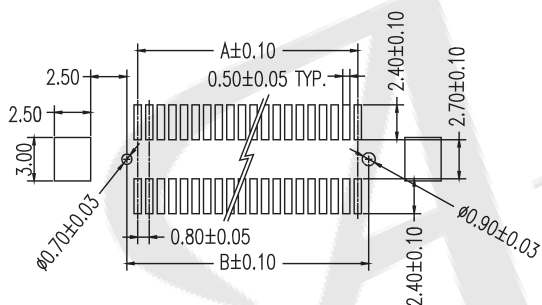
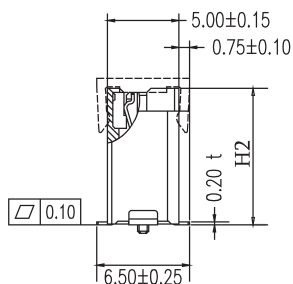
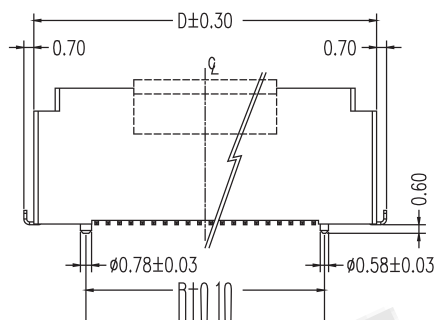
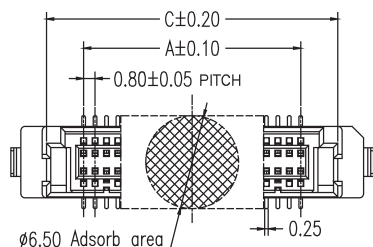
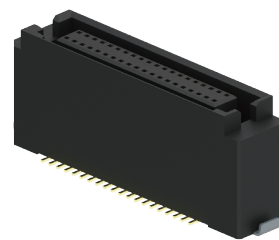
## Board To Board 0.8mm Female H=4.75/5.75/7.75mm

### Specifications

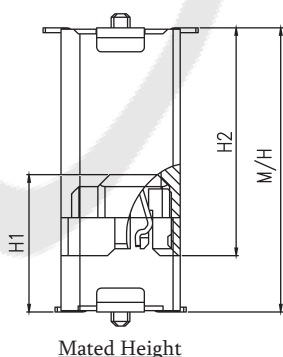
Current Rating: 0.5 AMP  
 Voltage Rating: 200V AC / 300V DC  
 Insulation Resistance: 100MΩ Min.  
 Contact Resistance: 70mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -40 C to +85 C

### Material

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



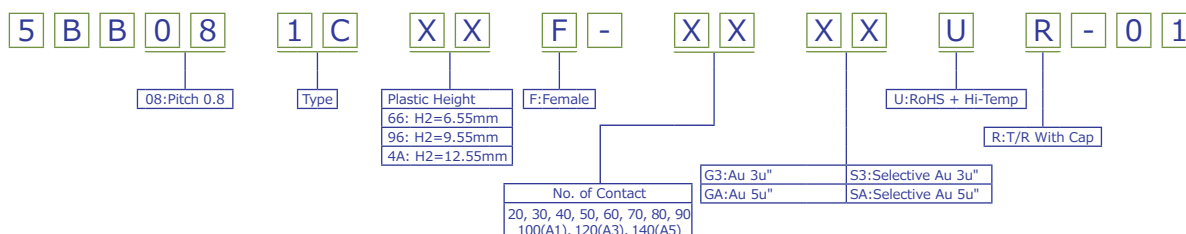
Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



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	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



# CONNECTORS MANUFACTURER

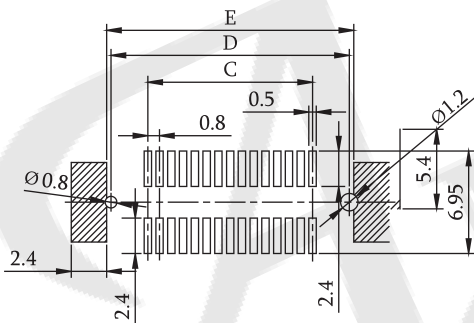
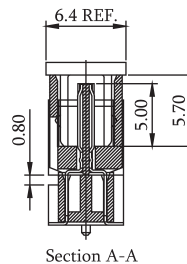
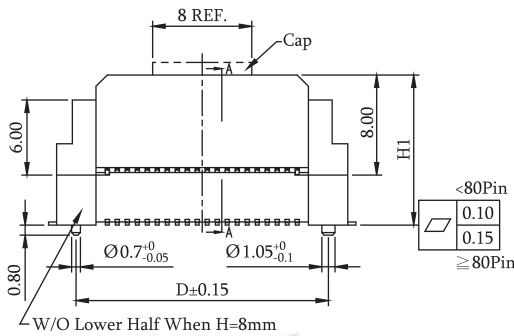
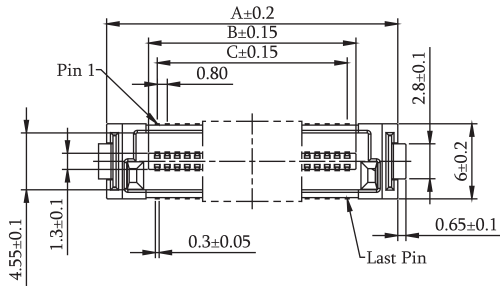
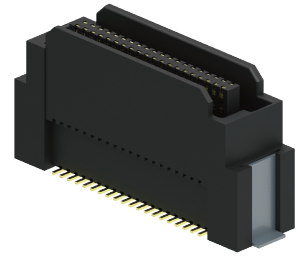
## Board To Board 0.8mm Male H=8.0/11.0/12.0/13.0/14.0mm

### Specifications

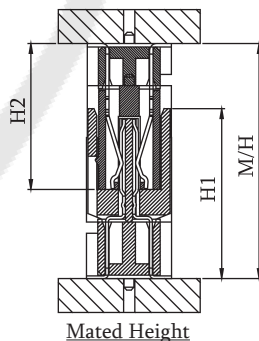
Current Rating: 0.5A  
 Contact Resistance: 65mΩ Max.  
 Insulator Resistance: 1000MΩ Min.  
 Dielectric Voltage: 250V AC for one minute  
 Operating Temperature: -40°C to +105°C

### Material

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



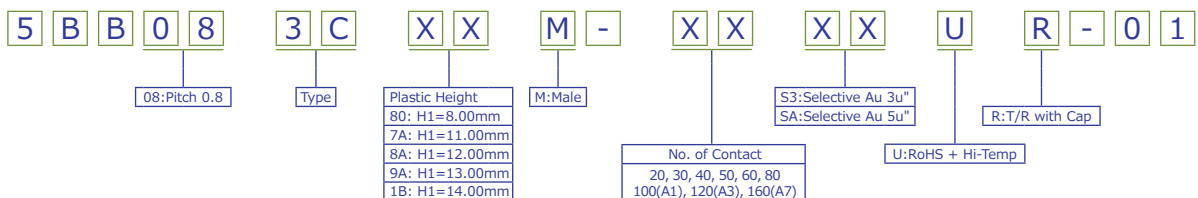
Recommended PCB Layout  
(PCB TOLERANCE  $\pm 0.05$ )



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

## ORDER INFORMATION



Standard Recommended

Board To Board 0.8mm

ROHS



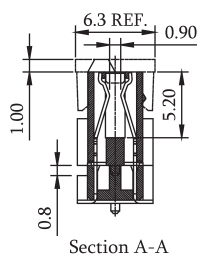
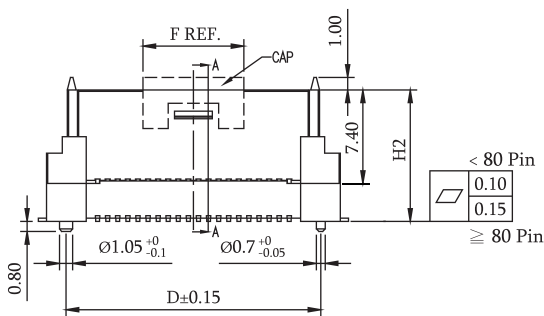
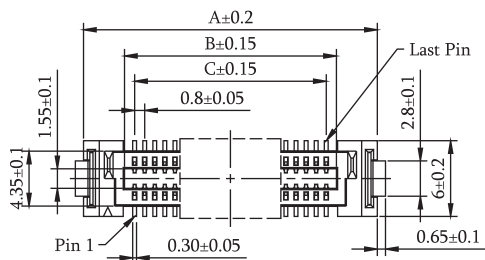
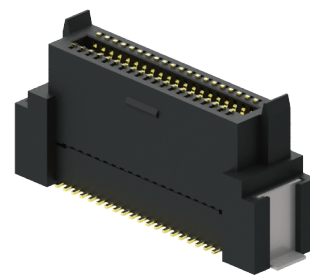
## Board To Board 0.8mm Female H=7.4/10.4/11.4/12.4/13.4mm

### Specifications

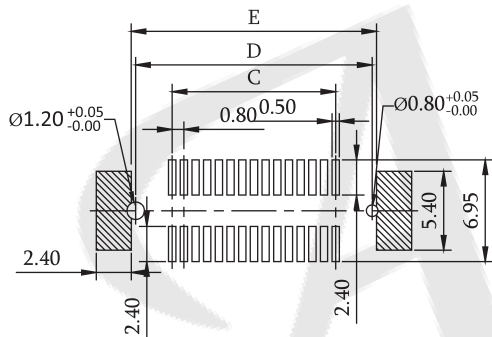
Current rating: 0.5A  
 Contact Resistance: 65mΩ Max.  
 Insulator Resistance: 1000MΩ Min.  
 Dielectric Voltage: 250V AC for one minute  
 Operating Temperature: -40°C to +105°C

### Material

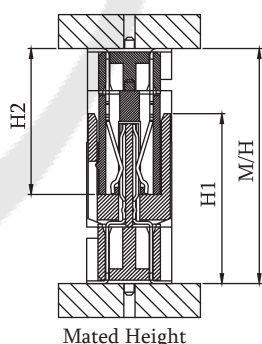
Insulation: Hi-Temp. Thermoplastic, UL 94V-0, Black  
 Contact Pin: Phosphor Bronze



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



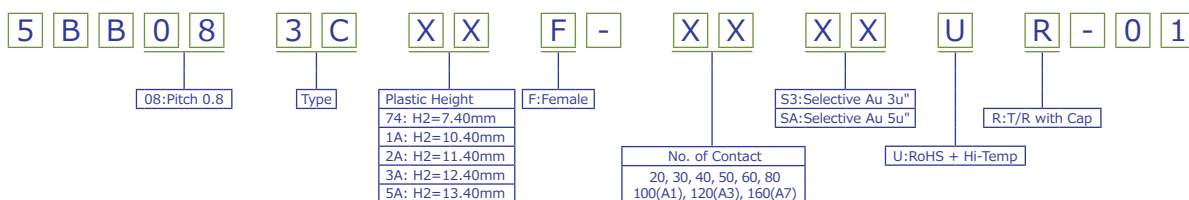
Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



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	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	
20.0	13.0	12.4
22.0	14.0	13.4

## ORDER INFORMATION



# CONNECTORS MANUFACTURER



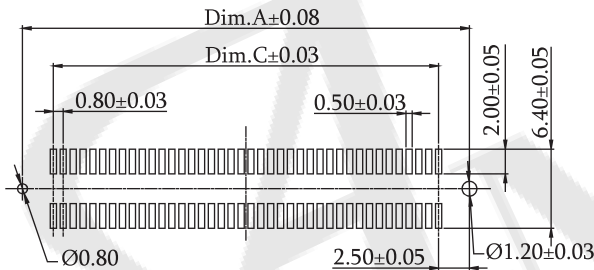
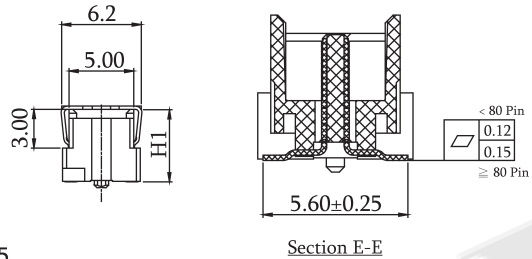
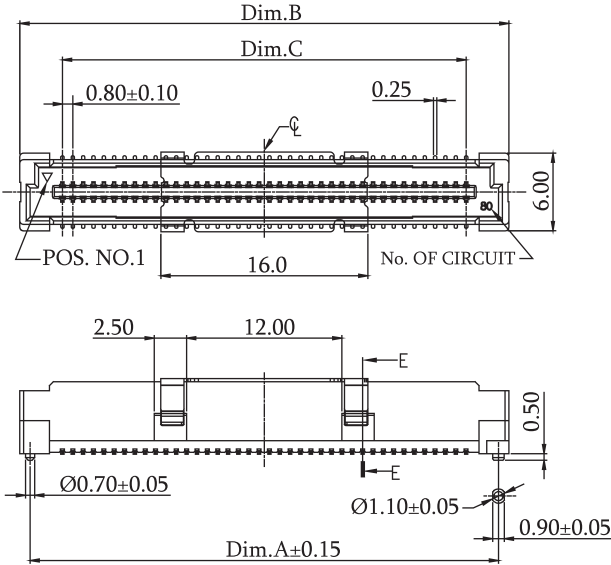
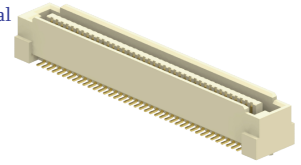
## Board To Board 0.8mm Male H=4.6/5.6/6.6/7.6mm

### Specifications

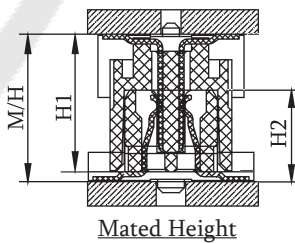
Current rating: 0.5A  
 Contact resistance: 30mΩ Max.  
 Insulator resistance: 500MΩ Min.  
 Withstanding voltage: AC 100V / minute  
 Operating Temperature: -40°C ~ +125°C

### Material

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



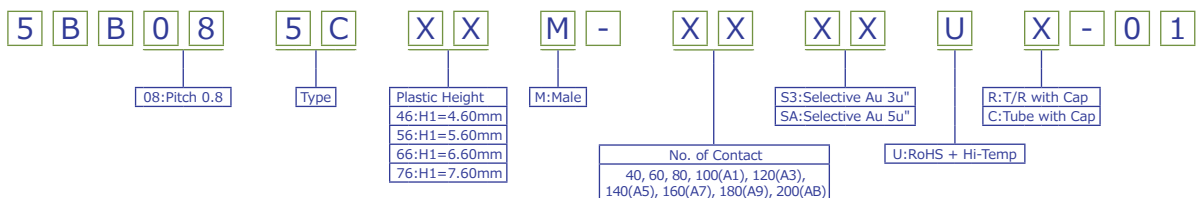
Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



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
180(A9)	76.20	77.80	71.20
200(AB)	84.20	85.80	79.20

Mated Height	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



◎:Standard Recommended

Board To Board 0.8mm

ROHS

COMMUNICATION MANUFACTURING

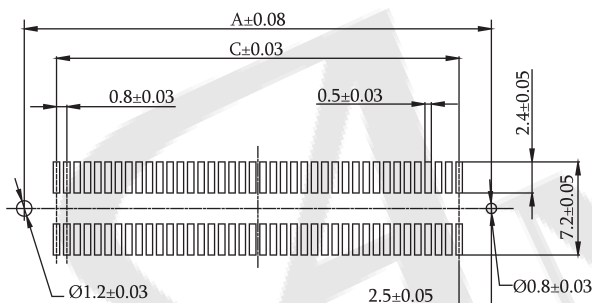
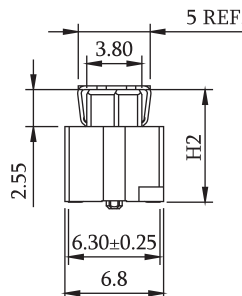
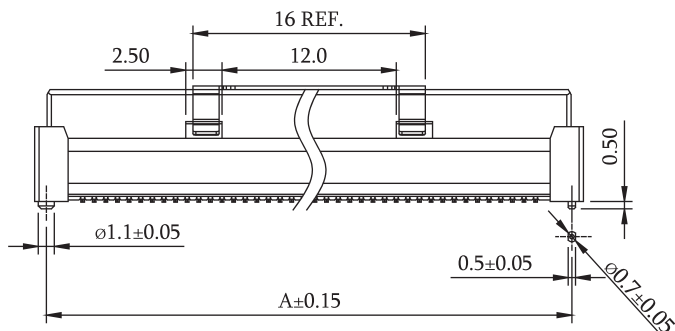
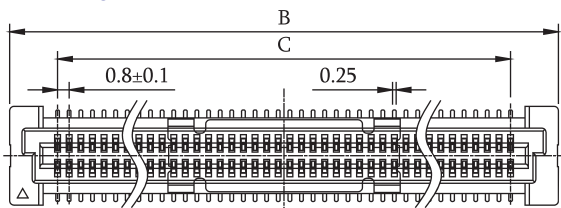
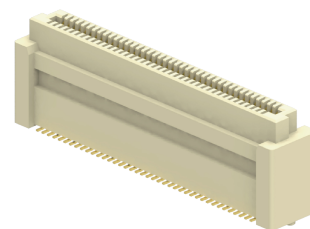
## Board To Board 0.8mm Female H=3.75/7.75/11.75mm

### Specifications

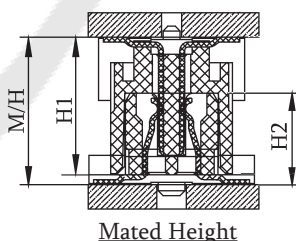
Current Rating: 0.5A  
 Contact Resistance: 30mΩ Max.  
 Insulator Resistance: 500MΩ Min.  
 Dielectric Voltage: 100V AC for one minute  
 Operating Temperature: -40°C to +125°C

### Material

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



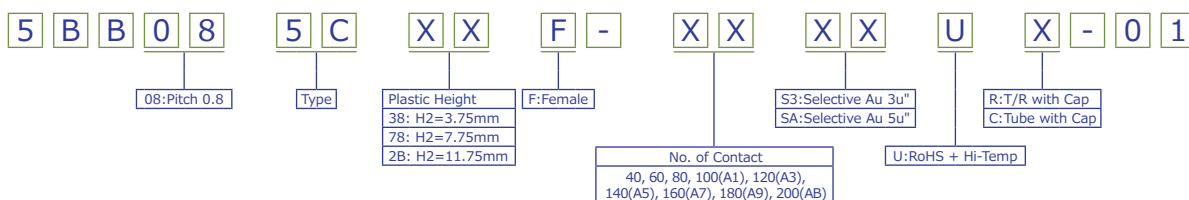
Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



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
180(A9)	76.20	77.80	71.20
200(AB)	84.20	85.80	79.20

Mated Height	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



# CONNECTORS MANUFACTURER



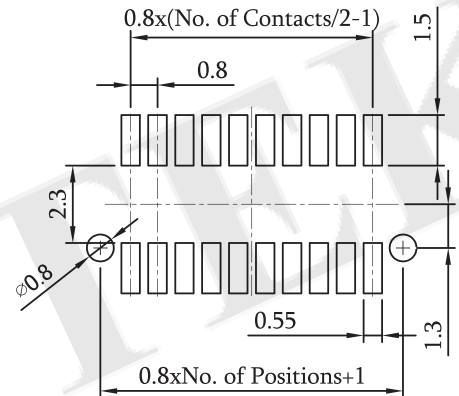
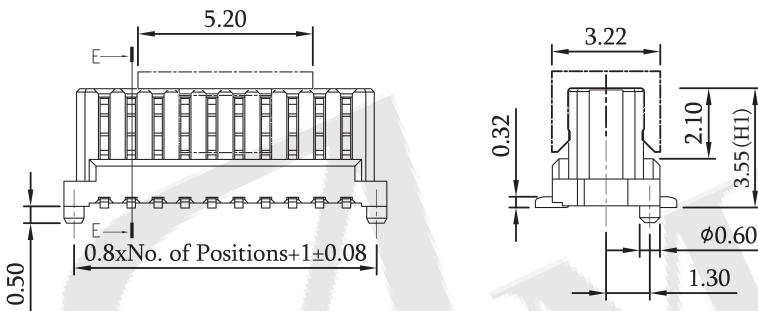
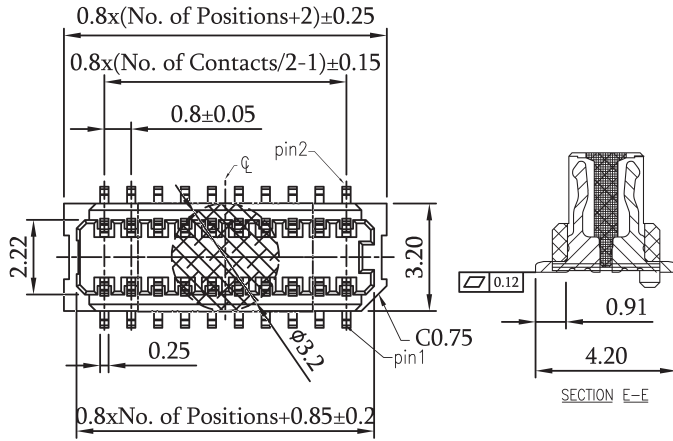
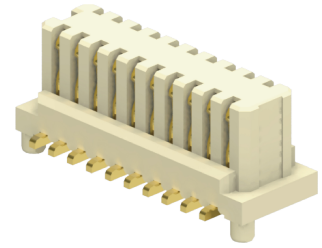
## Board To Board 0.8mm Male H=3.55mm

### Specifications

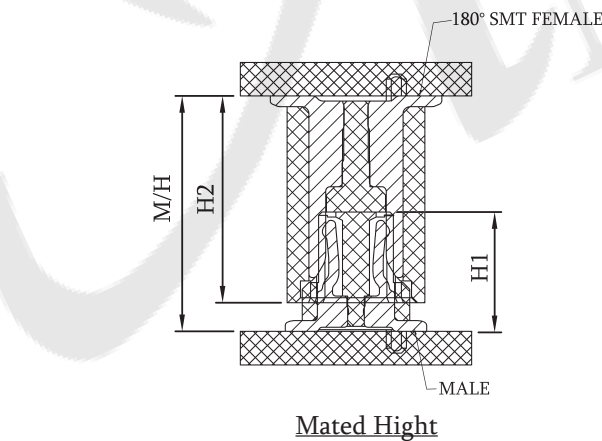
Current Rating: 0.5A  
 Contact Resistance: 30mΩ Max.  
 Insulator Resistance: 100MΩ Min.  
 Dielectric Voltage: 500V AC for one minute  
 Operating Temperature: -20°C ~ +105°C

### Material

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

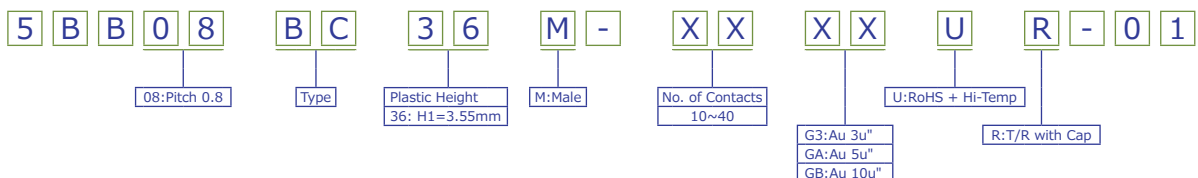


Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height	Plastic Height	
	Male	Female
4.50	3.55	3.65
5.00		4.15
5.65		4.70
6.00		5.15
6.50		5.65
7.00		6.15

## ORDER INFORMATION



⊙: Standard Recommended

Board To Board 0.8mm

ROHS

CONNECTORS MANUFACTURER



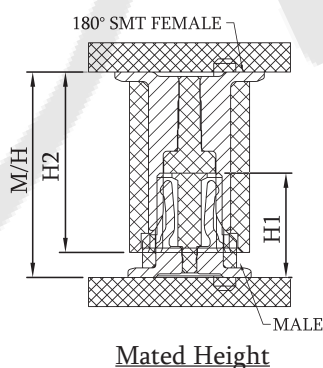
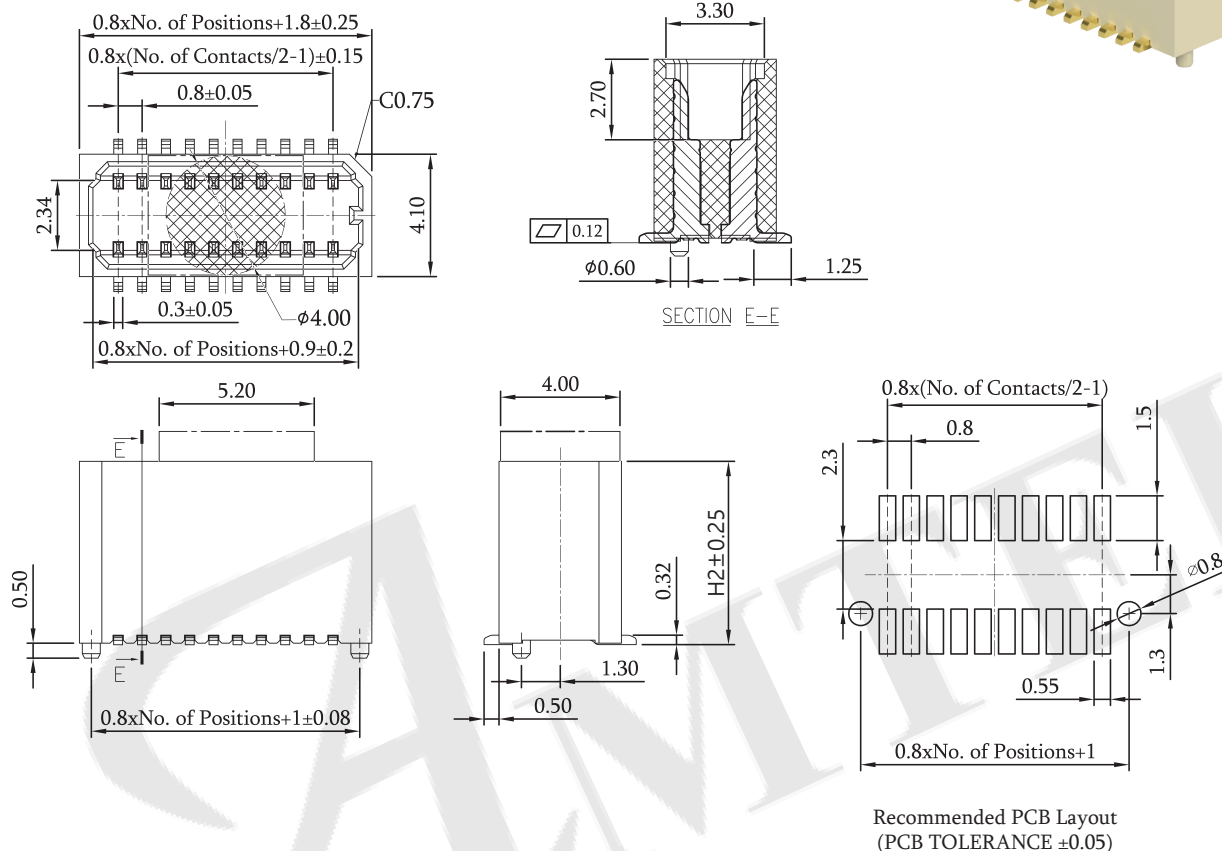
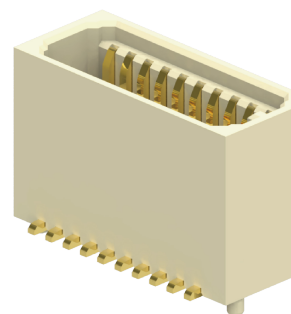
## Board To Board 0.8mm Female H=3.65/4.7/5.15/6.15mm

### 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

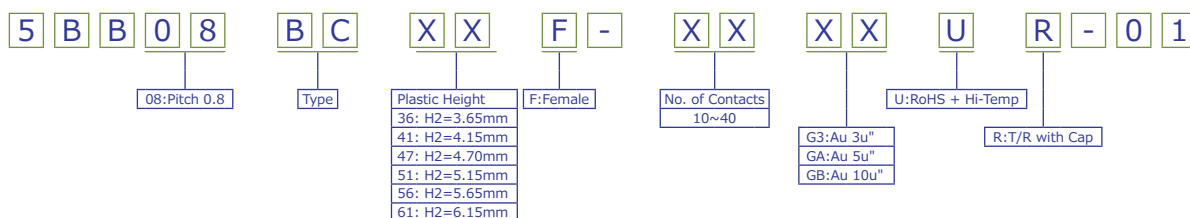
### Material

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



Mated Height	Plastic Height	
	Male(H1)	Female(H2)
4.50	3.55	3.65
5.00		4.15
5.65		4.70
6.00		5.15
6.50		5.65
7.00		6.15

## ORDER INFORMATION



# CONNECTORS MANUFACTURER



Board To Board 0.8mm

ROHS

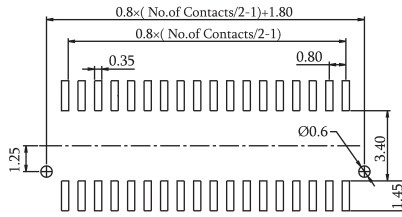
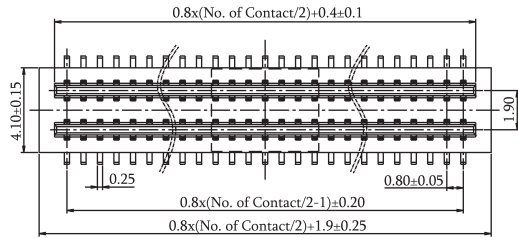
## Board To Board 0.8mm Male H=1.0/1.5/2.0/3.0/4.0mm

### Specifications

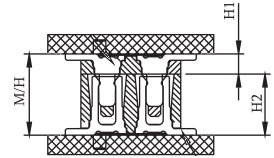
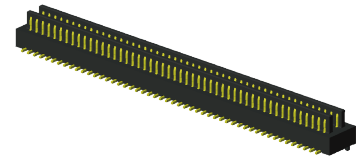
Current Rating: 0.5 AMP  
 Insulation Resistance: 100MΩ Min.  
 Contact Resistance: 50mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -20 C to +105 C

### Material

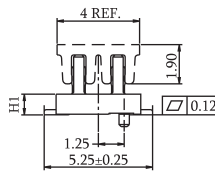
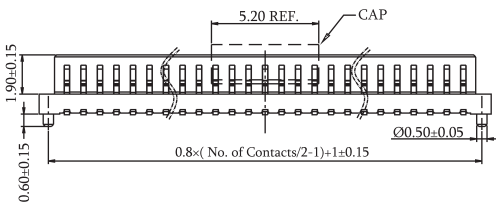
Insulator: Hi-Temp. Thermoplastic, UL 94V-0  
 Contact Pin: Copper Alloy



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



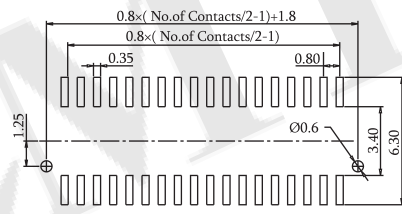
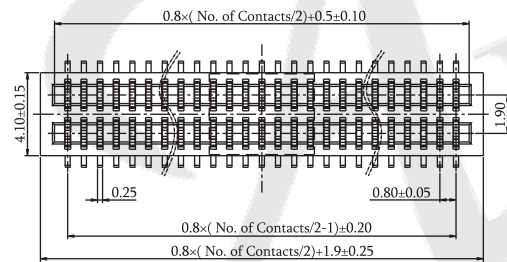
Mated Height



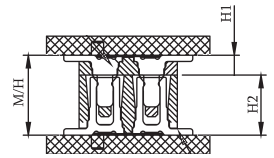
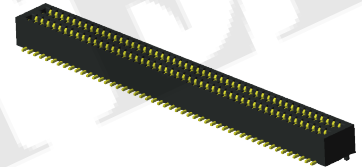
Mated Height	Plastic Height	
	Male(H1)	Female(H2)
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	4.0
5.5	1.5	
6.0	2.0	4.5
6.5	2.0	
7.0	3.0	4.0
7.5	3.0	4.5
8.0	4.0	4.0

P/N.:5BB082CXXM

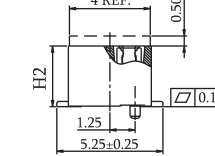
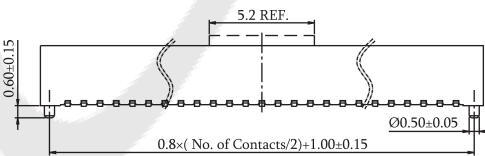
## Board To Board 0.8mm Female H=3.0/4.0/4.5mm



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height



Mated Height	Plastic Height	
	Male(H1)	Female(H2)
4.0	1.0	3.0
4.5	1.5	
5.0	2.0	4.0
5.5	1.5	
6.0	2.0	4.5
6.5	2.0	
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	-	X	X
08: Pitch 0.8					Type				M: Male	No. of Contacts			U: RoHS + Hi-Temp		01: White				
									F: Female	10, 20, 30, 40, 50, 80, 100(A1)									
					Male Plastic Height		Female Plastic Height							G3: Au 3u"		S3: Selective Au 3u"			
					10: H1=1.0mm		30: H2=3.0mm							GA: Au 5u"		SA: Selective Au 5u"			
					15: H1=1.5mm		40: H2=4.0mm												
					20: H1=2.0mm		45: H2=4.5mm												
					30: H1=3.0mm														
					40: H1=4.0mm														
														R: T/R With Cap		H: T/R W/O Cap			

◎: Standard Recommended

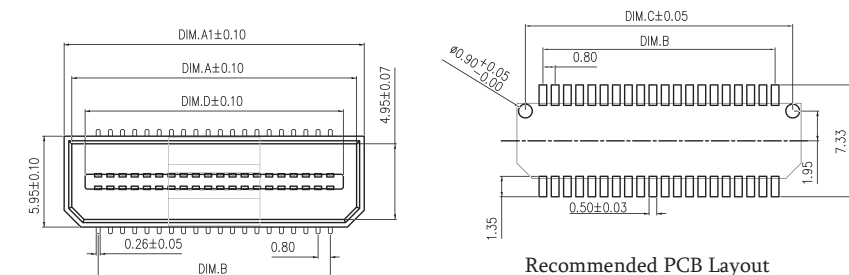
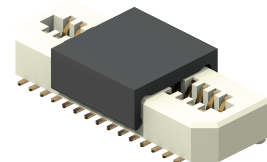
## Board To Board 0.8mm Male H=2.72/3.72/4.72/10.14/11.14mm

### Specifications

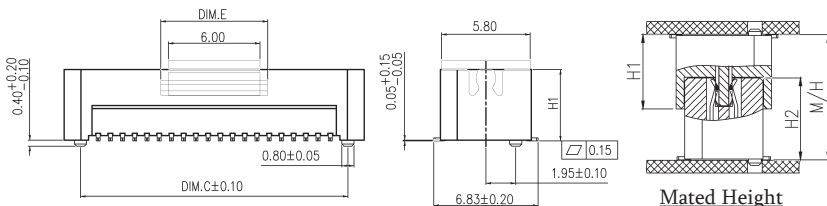
Current Rating: 0.5A  
 Contact Resistance: 60mΩ Max.  
 Insulator Resistance: 1000MΩ Min.  
 Dielectric Voltage: 250V AC for one minute  
 Operating Temperature: -40°C to +85°C

### Material

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



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



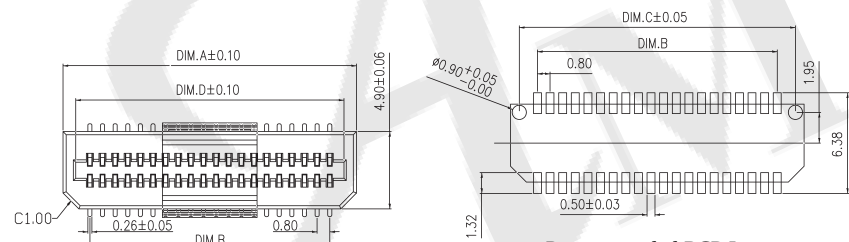
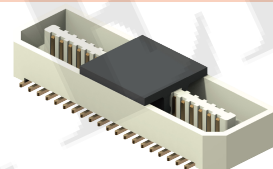
Mated Height

No. of Pins	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	
22	12.45	11.45	8.00	10.30	9.70	8.00
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	
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

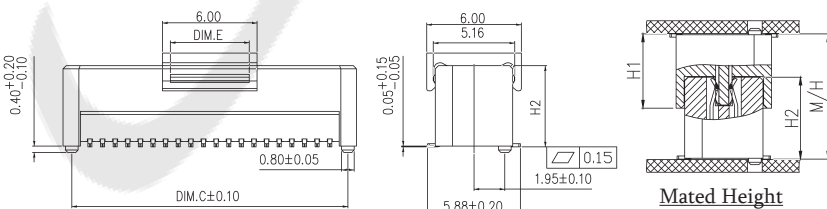
Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0		2.2
3.5	2.72	2.7
4.0		2.2
4.5	3.72	2.7
5.0		2.2
5.5	4.72	2.7
6.0	2.72	
7.0	3.72	
8.0	4.72	5.2
13.0	10.14	
14.0	11.14	

P/N.:5BB089CXXM

## Board To Board 0.8mm Female H=3.4mm



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height

No. of Pins	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	
22	11.40	8.00	10.30	9.80	2.50
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	
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

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
3.0		2.2
3.5	2.72	2.7
4.0		2.2
4.5	3.72	2.7
5.0		2.2
5.5	4.72	2.7
6.0	2.72	
7.0	3.72	
8.0	4.72	5.2
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

M:Male  
F:Female

No. of Contacts  
14, 16, 20~30, 34, 45  
50, 60, 64, 80, 100(A1)

U:RoHS + Hi-Temp

R:T/R With Cap

Male Plastic Height	Female Plastic Height
27: H1=2.72mm	22: H2=2.2mm
37: H1=3.72mm	27: H2=2.7mm
47: H1=4.72mm	52: H2=5.2mm
1C: H1=10.14mm	
2C: H1=11.14mm	

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

# CONNECTORS MANUFACTURER

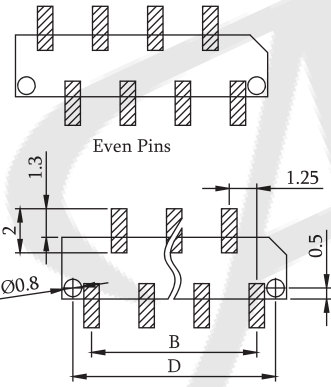
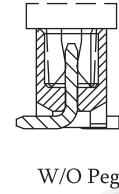
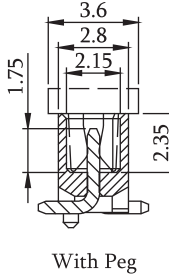
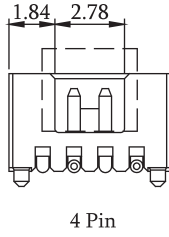
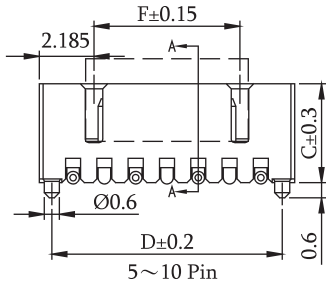
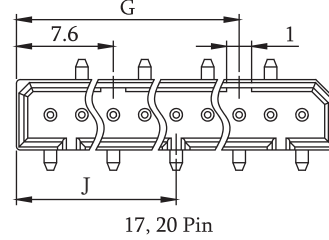
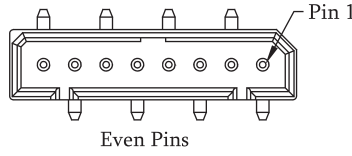
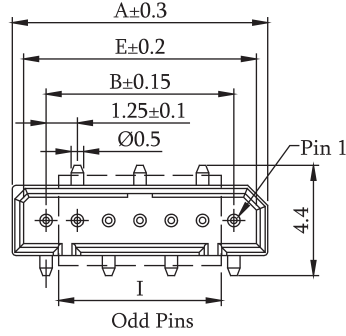
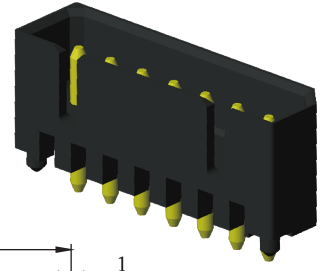
## Board To Board 1.25mm Male H=3.95/5.95mm

### Specifications

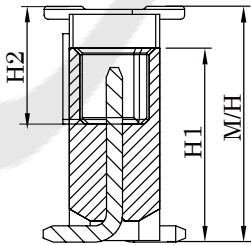
Current Rating: 0.5 AMP  
 Insulation Resistance: 100MΩ Min.  
 Contact Resistance: 20mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -25°C to +85°C

### Material

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



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



Mated Height

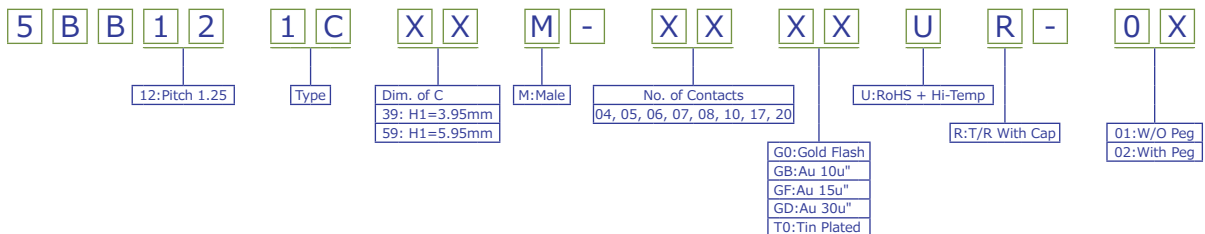
Pin	Dim.I
4-5	3.8
6-20	6.5

Pin	Dim.G	Dim.J
17	15.10	10.985
20	18.85	12.235

No. of Contacts	Dimensions					
	A	B	C	D	E	F
04	6.45	3.75	3.95 5.95	5.45	5.85	2.78
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	Plastic Height	
	Male(H1)	Female(H2)
5.0	3.95	3.4
7.0	5.95	

## ORDER INFORMATION



◎: Standard Recommended



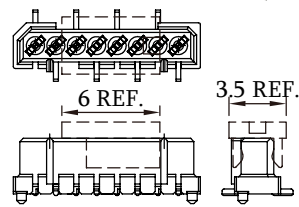
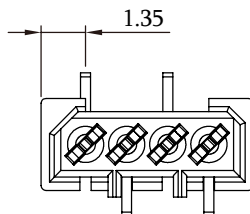
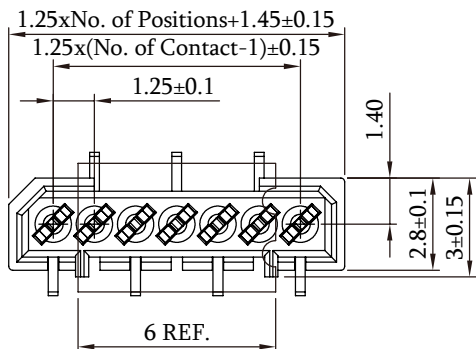
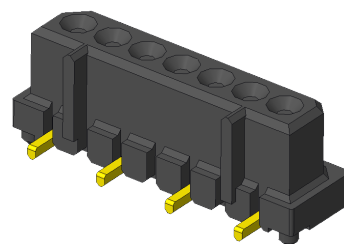
## Board To Board 1.25mm Female H=3.95/5.95mm

### 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

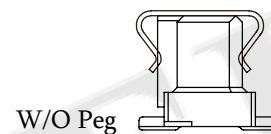
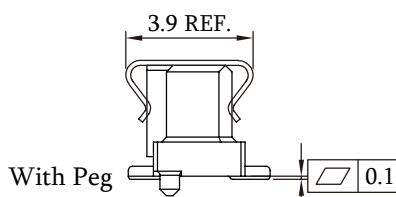
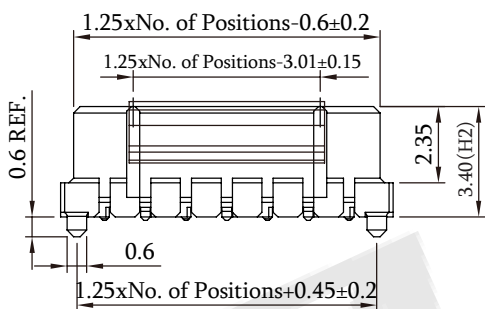
### Material

Insulator: Nylon 9T+33%G.F., UL94V-0, Black  
 Contact Pin: Phosphor Bronze  
 Cap: 8-16P: Plastic

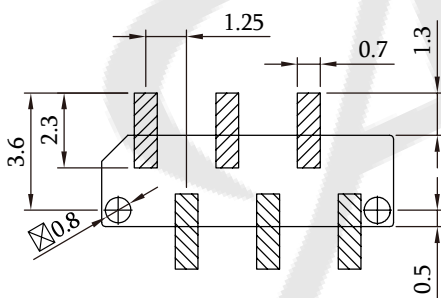


Cap of 8-16 Pin

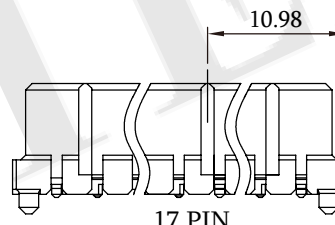
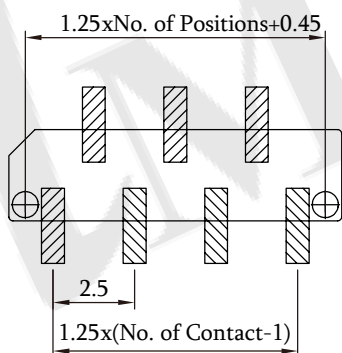
4 PIN



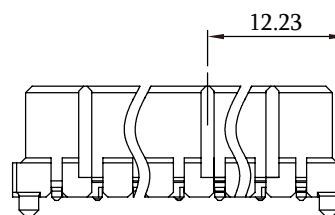
W/O Peg



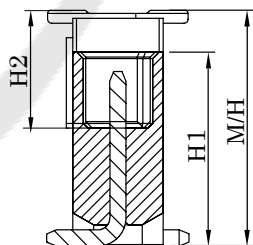
Even Pin



17 PIN



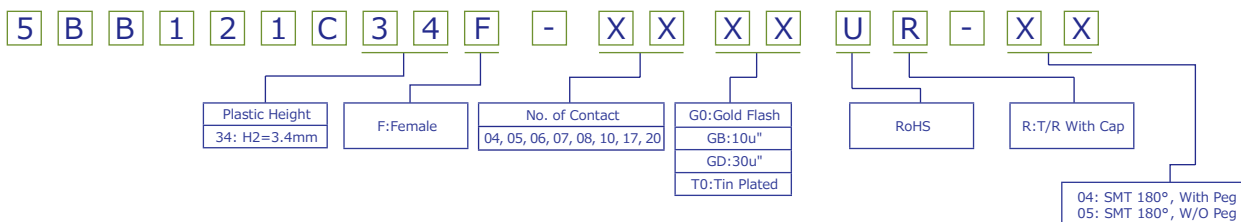
20 PIN



Mated Height

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

## ORDER INFORMATION



# CONNECTORS MANUFACTURER



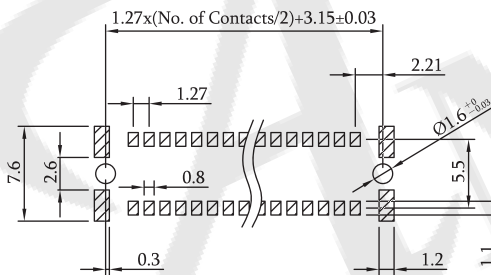
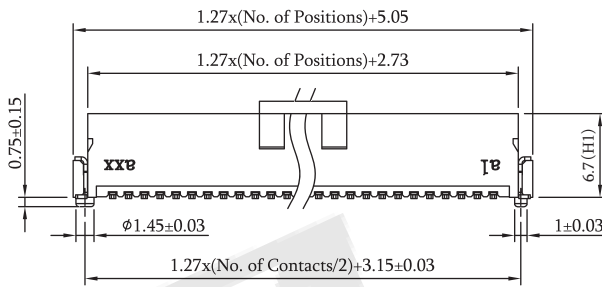
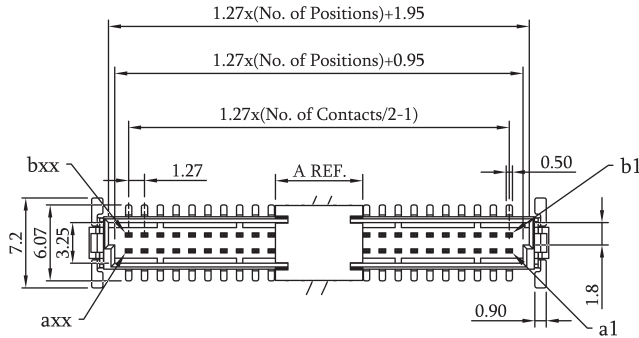
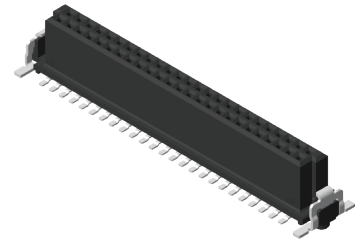
## Board To Board 1.27mm Male H=6.7mm

### Specifications

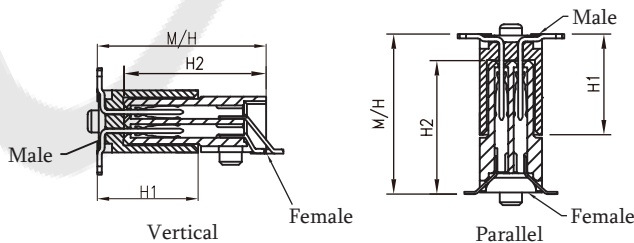
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

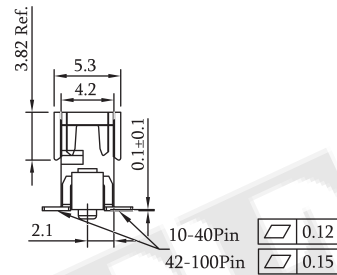
Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



Mated Height



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

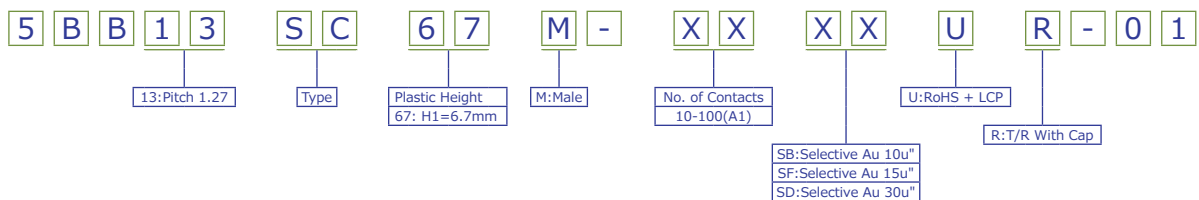
### Vertical

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

### Parallel

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

## ORDER INFORMATION



◎:Standard Recommended

Board To Board 1.27mm

ROHS

AMTEK CONNECTORS MANUFACTURER

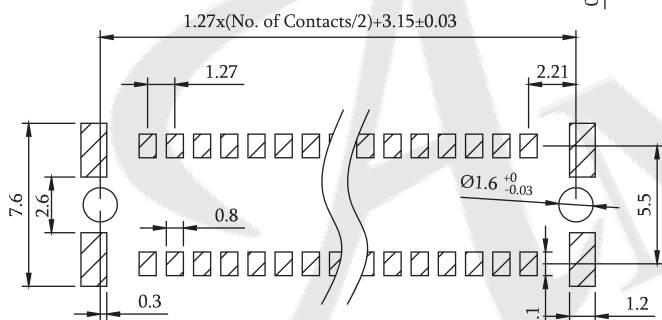
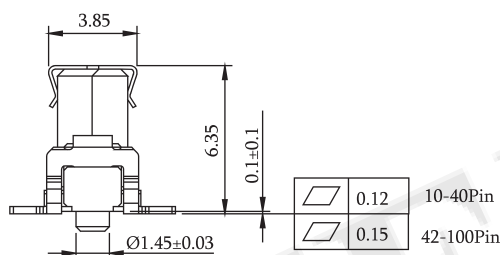
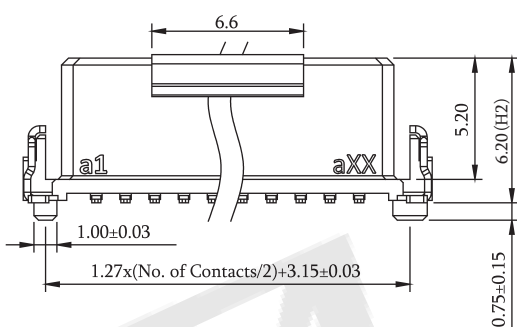
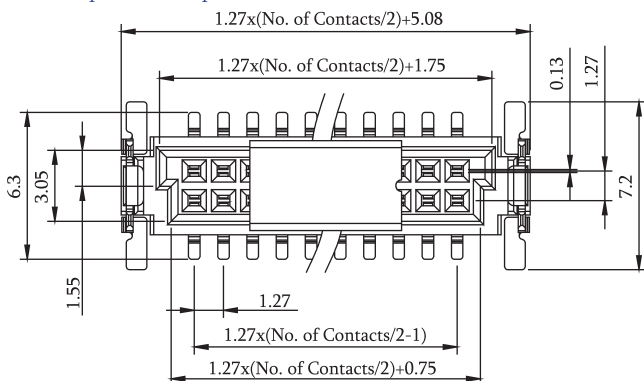
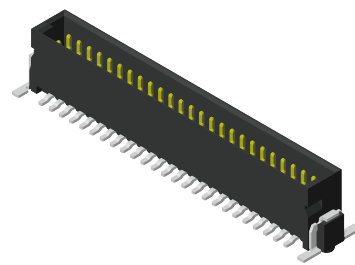
## Board To Board 1.27mm Female H=6.2mm

### Specifications

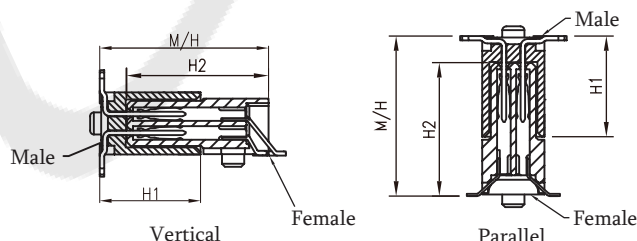
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55 °C to +125 °C

### Material

Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



Mated Height

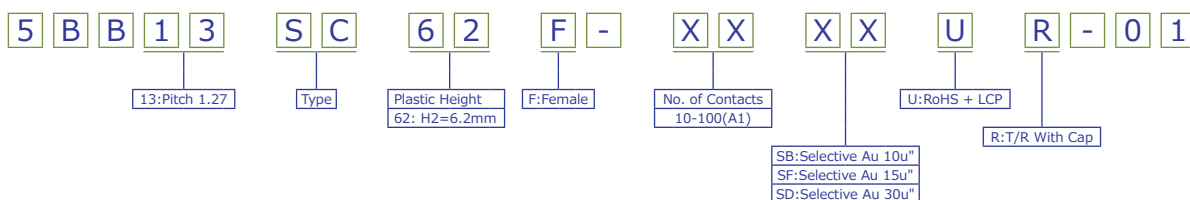
### Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
9.4	8.2	6.2

### Parallel

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
8.0	6.7	6.2
9.5	8.2	
11.1	9.9	

## ORDER INFORMATION



# CONNECTORS MANUFACTURER

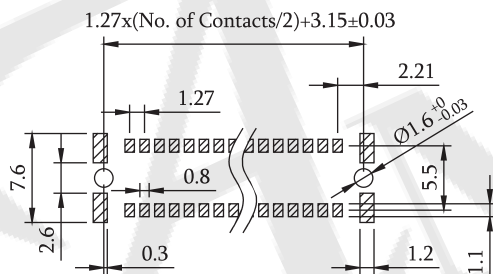
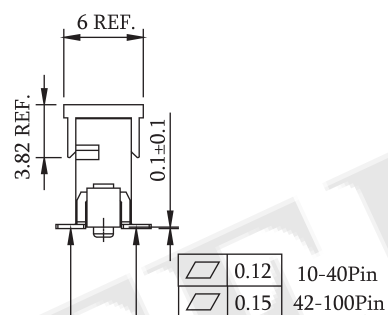
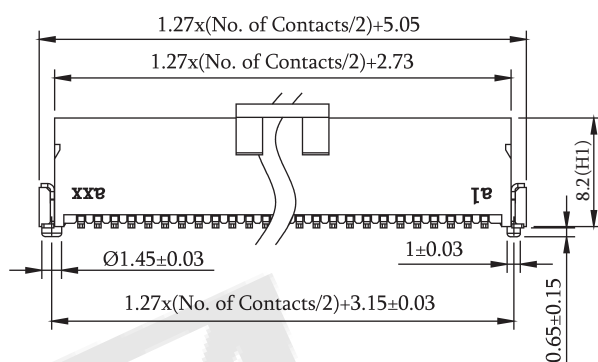
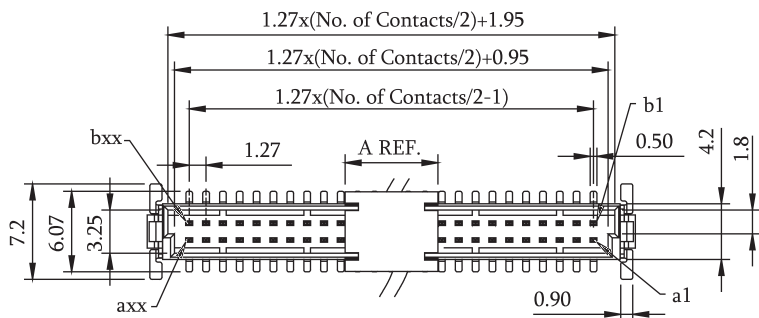
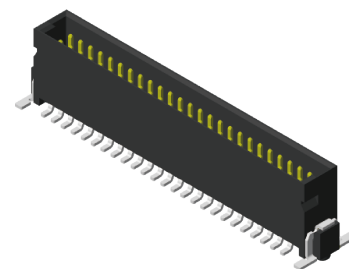
## Board To Board 1.27mm Male H=8.2mm

### Specifications

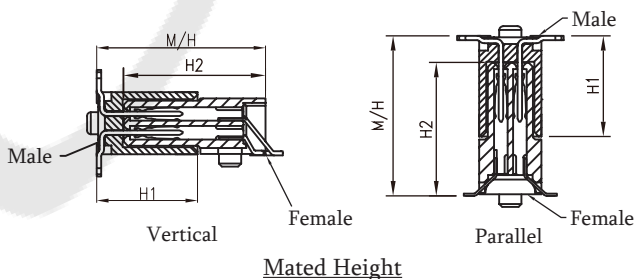
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



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

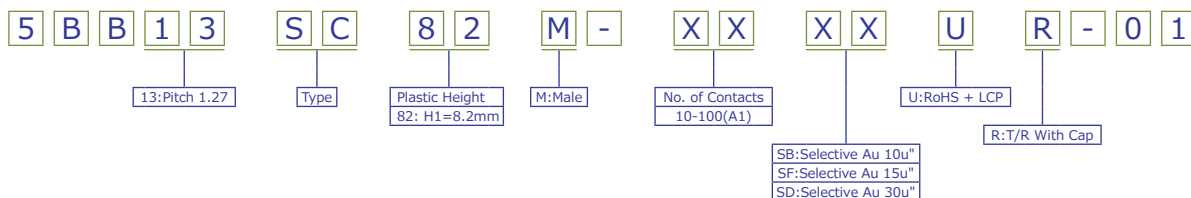
### Vertical

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

### Parallel

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

## ORDER INFORMATION



◎:Standard Recommended

Board To Board 1.27mm

ROHS

CONNECTORS MANUFACTURER

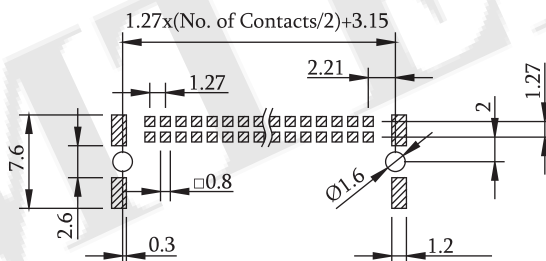
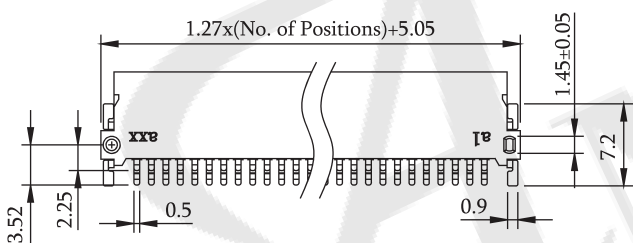
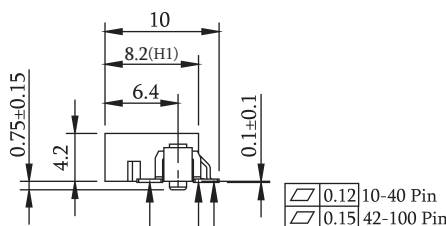
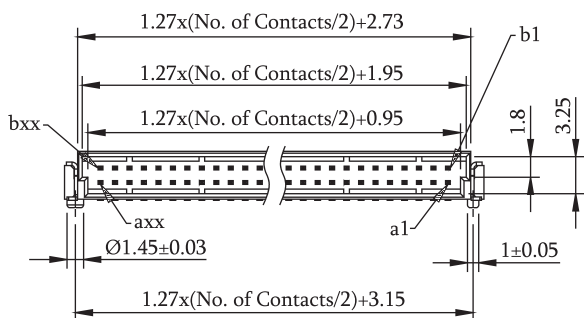
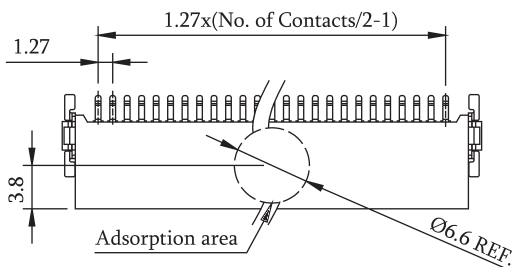
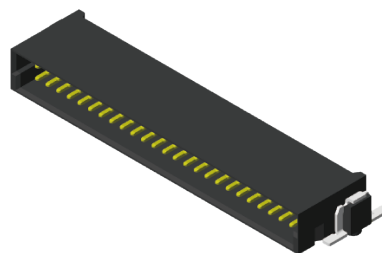
## Board To Board 1.27mm Male SMT R/A H=8.2mm

### Specifications

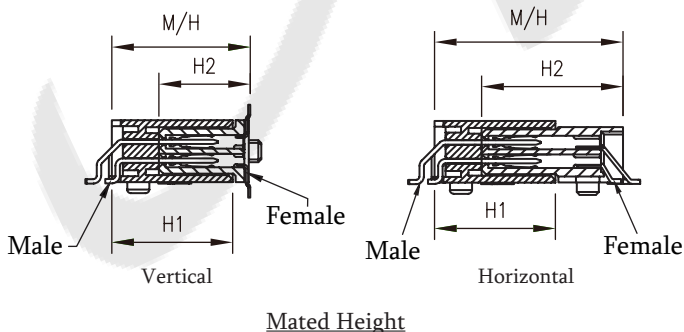
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



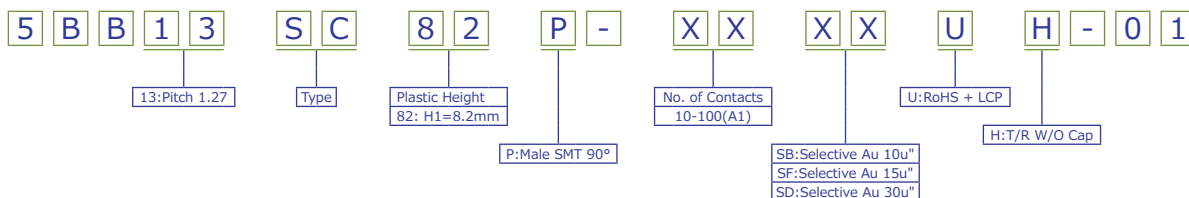
### Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
9.40	8.2	6.2
12.20		9.0
16.85		13.6

### Horizontal

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
12.8	8.2	9.6

## ORDER INFORMATION





# CONNECTORS MANUFACTURER

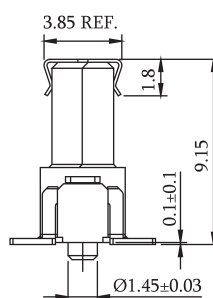
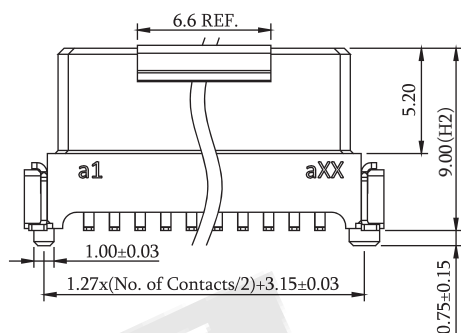
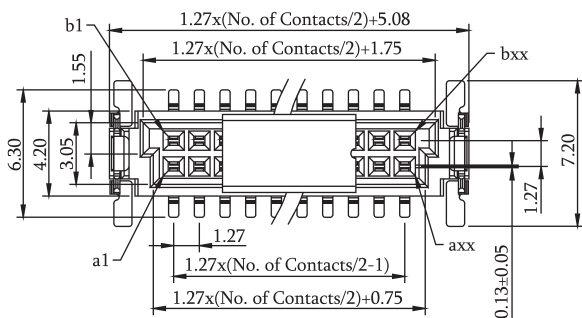
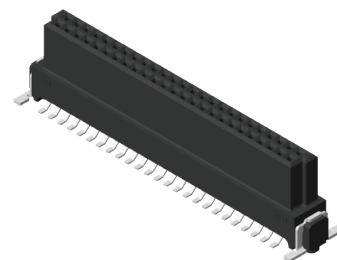
## Board To Board 1.27mm Female H=9.0mm

### Specifications

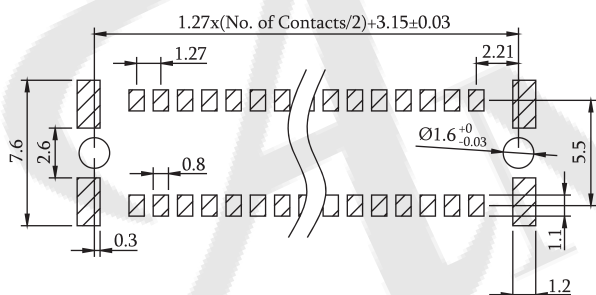
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

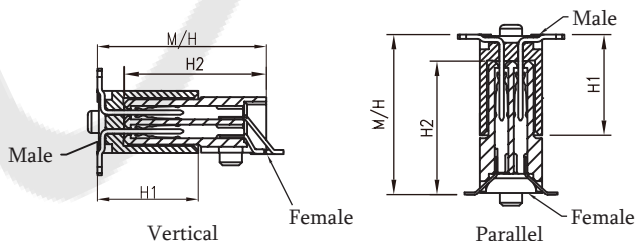
Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



	0.12	10-40Pin
	0.15	42-100Pin



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



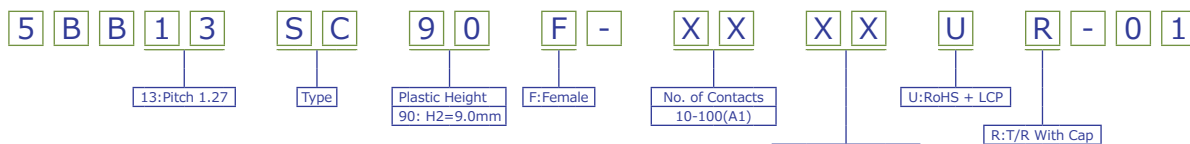
### Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
12.2	8.2	9.0

### Parallel

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
10.8	6.7	9.0
12.3	8.2	
13.9	9.9	

## ORDER INFORMATION



SB: Selective Au 10u"  
 SF: Selective Au 15u"  
 SD: Selective Au 30u"

Board To Board 1.27mm

ROHS

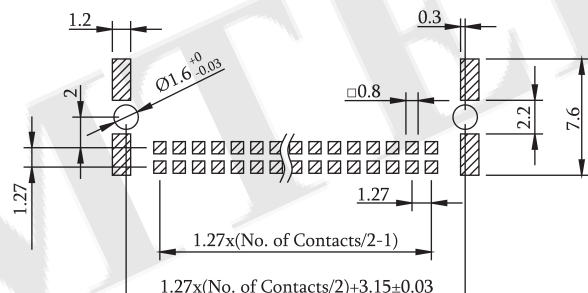
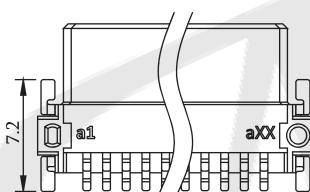
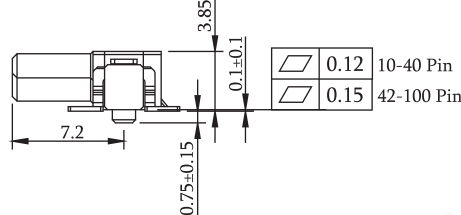
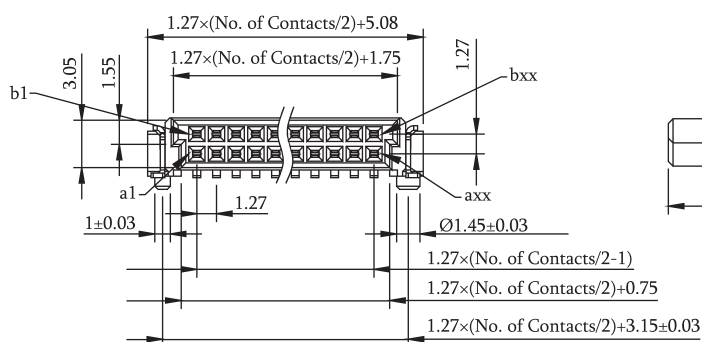
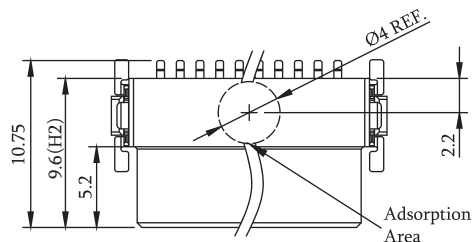
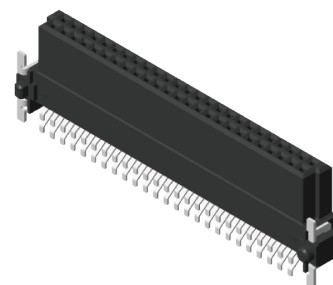
## Board To Board 1.27mm Female SMT R/A H=9.6mm

### Specifications

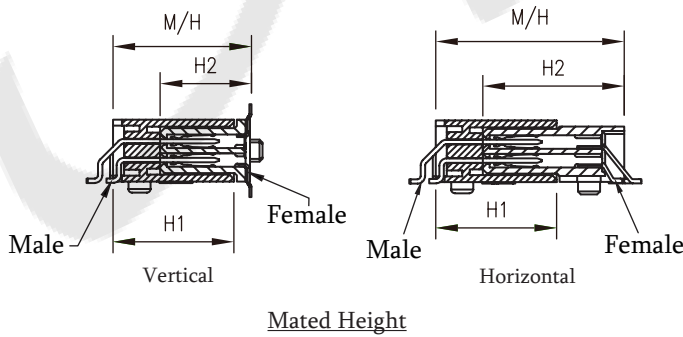
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



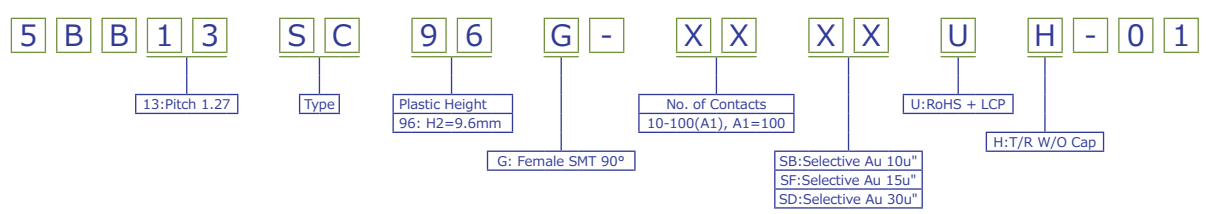
Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
11.4	6.7	9.6
12.9	8.2	
14.5	9.9	

Horizontal

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
12.8	8.2	9.6

## ORDER INFORMATION



◎: Standard Recommended

# CONNECTORS MANUFACTURER

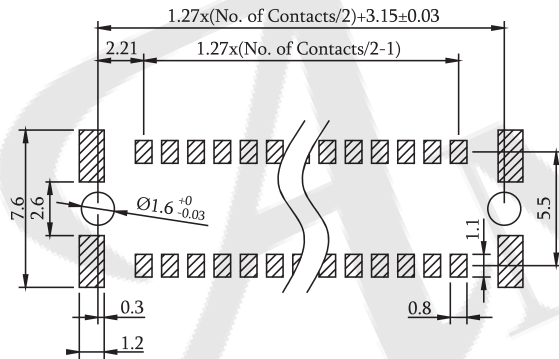
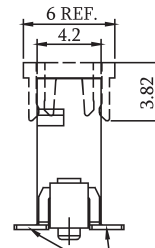
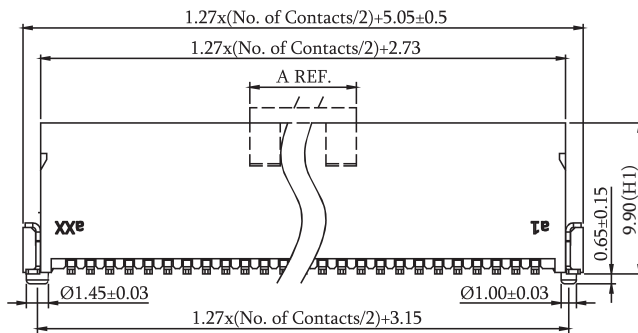
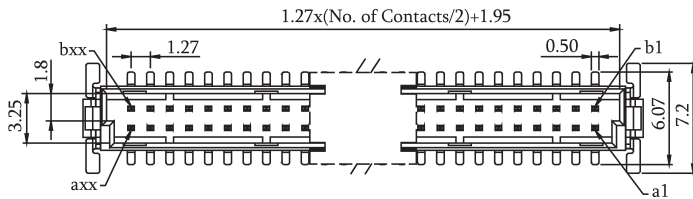
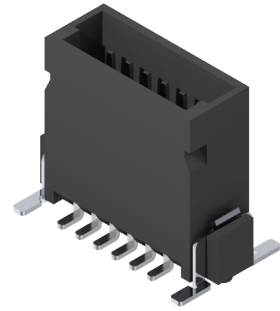
## Board To Board 1.27mm Male H=9.9mm

### Specifications

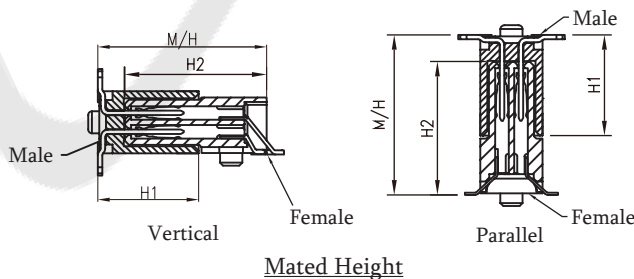
Current Rating: 0.5-1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

Insulator: LCP, Black  
 Contact Pin: Phosphor Bronze



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



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

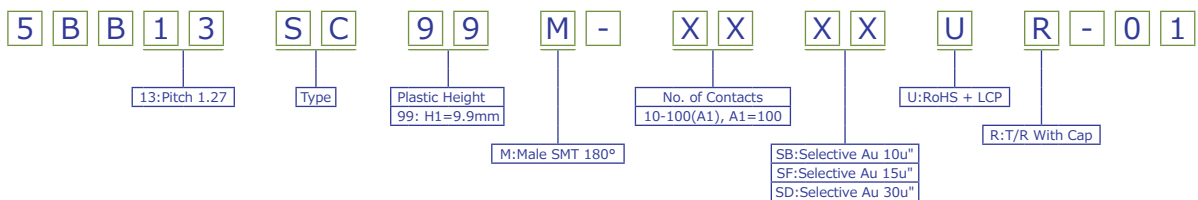
### Vertical

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

### Parallel

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

## ORDER INFORMATION



◎: Standard Recommended

Board To Board 1.27mm

ROHS

CONNECTORS MANUFACTURER

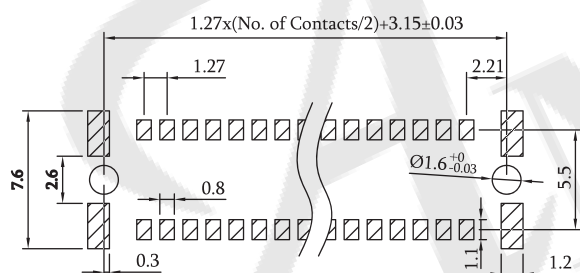
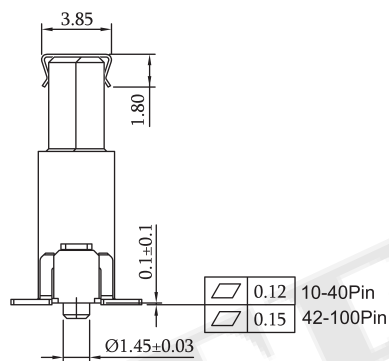
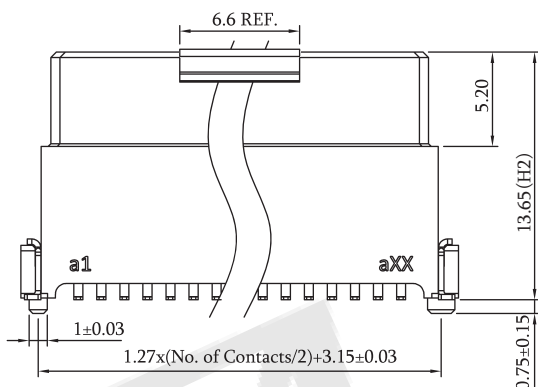
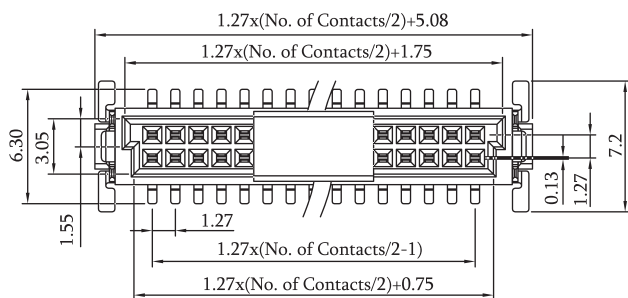
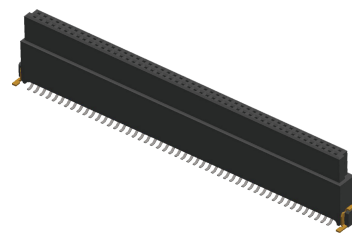
## Board To Board 1.27mm Female H=13.6mm

### Specifications

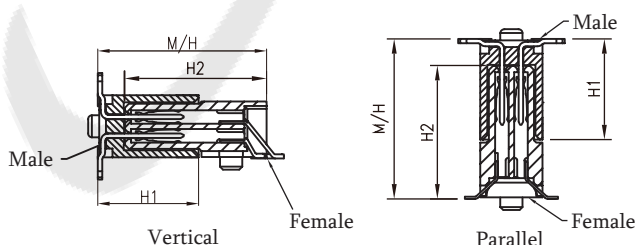
Current Rating: 0.5 to 1.0 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55 °C to +125 °C

### Material

Insulator: LCP, Black  
 Contact Pin: Copper Alloy



Recommended PCB Layout  
 (PCB TOLERANCE ±0.05)



Mated Height

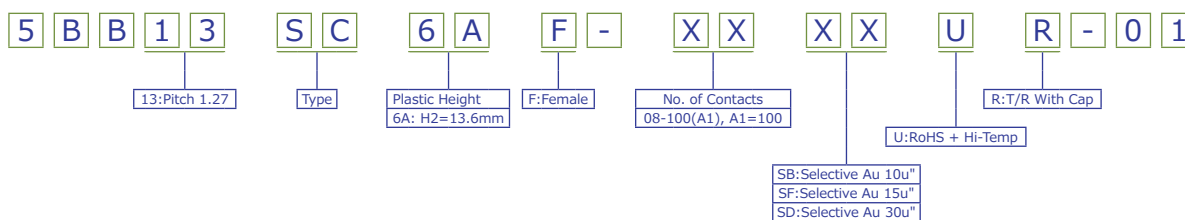
### Vertical

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
16.85	8.2	13.6

### Parallel

Mated Height	Plastic Height	
	Male(H1)	Female(H2)
15.45	6.7	13.6
16.95	8.2	
18.60	9.9	

## ORDER INFORMATION



# CONNECTORS MANUFACTURER



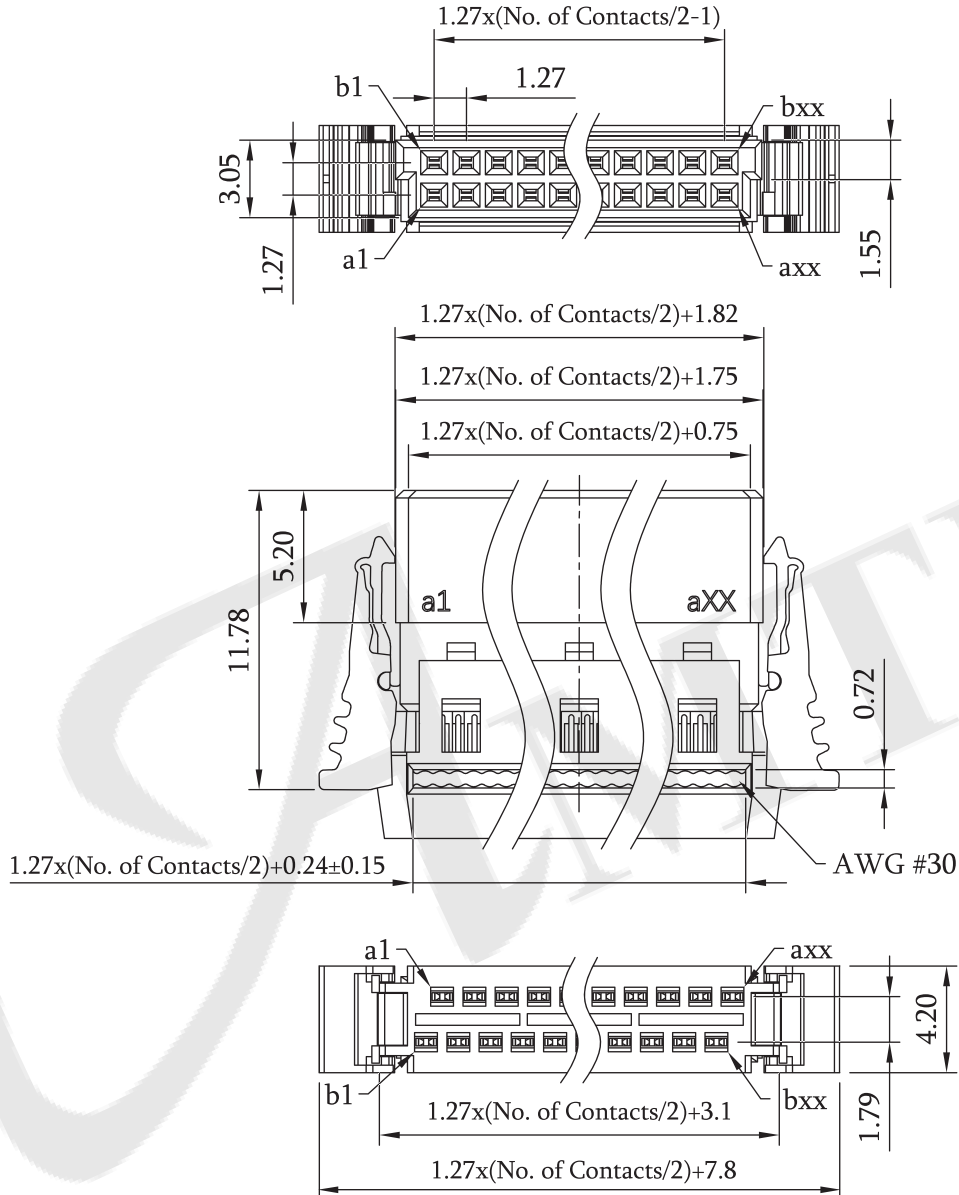
## Board To Board 1.27mm Male H=13.6mm

### Specifications

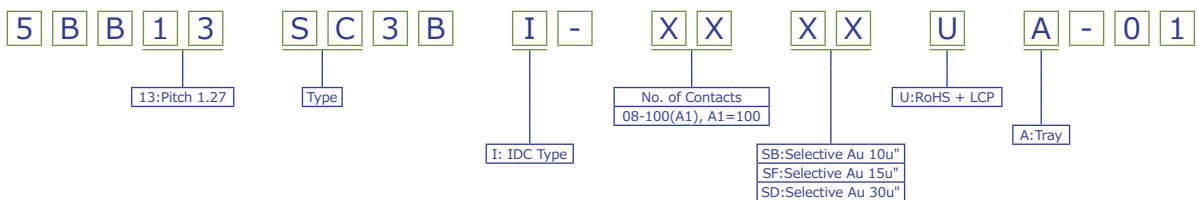
Current Rating: 0.8 AMP  
 Insulation Resistance: 10000MΩ Min.  
 Contact Resistance: 25mΩ Max.  
 Dielectric Voltage: 500V AC for one minute  
 Operation Temperature: -55°C to +125°C

### Material

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



## ORDER INFORMATION



⊙: Standard Recommended

Board To Board 1.27mm

ROHS