

# 0.8mm, 1.0mm & Custom Pitches

## Board to Board Connectors

Board to Board Connectors from Advanced Interconnections Corp. are designed for long-life applications and robust handling. Screw-machined terminals with multi-finger contacts combine with value-added features including protective pick-and-place covers or heavy duty, shrouded insulators to provide positive polarization and superior durability. Standard connectors can be easily customized for application-specific requirements.

### FEATURES

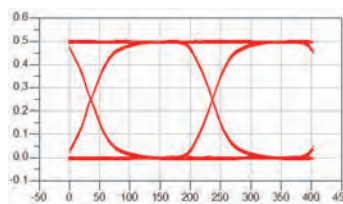
- Superior electrical performance – low signal attenuation up to 1.4 GHz for 0.8mm pitch or 1.05 GHz for 1.0mm pitch
- Field-proven screw-machined terminals with multi-finger contacts, arranged in an interstitial male/female pin pattern are gold plated for gold/gold interconnect
- No external hold-downs required
- Standard eutectic Tin/Lead or lead-free Tin/Silver/Copper solder ball terminals for RoHS Compliant applications
- Shrouding feature protects pin field and aids in hand placement with optional stand-offs available
- Available in any 0.8mm or 1mm pitch footprint
- Multi-pitch and custom pitch available

### PERFORMANCE

Even with adjacent aggressor excitation, our socket system provides a differential data path of +/- 175mV @ 100psec and a single-ended data path of +/- 125mV @ 140psec.

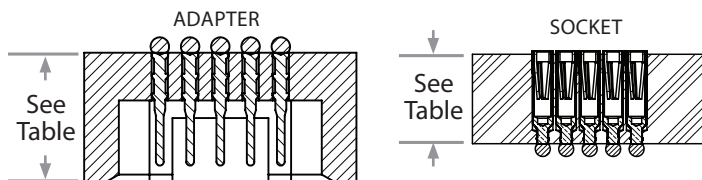
### DIFFERENTIAL

	INSERTION LOSS	RETURN LOSS
<b>0.8mm</b>	-0.20dB @ 0.8GHz -0.40dB @ 1.4GHz	-15.0dB @ 0.8GHz -10.0dB @ 1.4GHz
<b>1.0mm</b> 5.5mm Mate Height	-0.10dB @ 1.5GHz -0.20dB @ 3.1GHz	-15.0dB @ 1.5GHz -10.0dB @ 3.1GHz



Additional electrical performance, signal integrity analysis data, and models available online.

### INSULATOR THICKNESS inches (mm)



### STANDARD & SMT ADAPTERS



**0.8mm**  
Type -736  
Sn/Pb Solder Ball

Type -829  
Sn/Ag/Cu Solder Ball

**1.0mm**  
Type -737  
Sn/Pb Solder Ball

Type -824  
Sn/Ag/Cu Solder Ball

### STANDARD SOCKET



**0.8mm**  
Type -790  
Sn/Pb Solder Ball

Type -788  
Sn/Ag/Cu Solder Ball

**1.0mm**  
Type -702  
Sn/Pb Solder Ball

Type -828  
Sn/Ag/Cu Solder Ball



5 Energy Way, West Warwick, Rhode Island 02893 USA  
Tel 800.424.9850 | 401.823.5200 | Fax 401.823.8723  
info@advanced.com | www.advanced.com

# 0.8mm, 1.0mm & Custom Pitches

# Board to Board Connectors

## Specifications

Specifications	0.8mm Pitch		1.0mm Pitch	
	Socket	Adapter	Socket	Adapter
Min Row Count X	5	5	5	5
Min Row Count Y	6	6	6	6
Overall Size 'X' (mm)	(Row count - 1)* 0.8 + 4.8	(Row count - 1)* 0.8 + 5	(Row count - 1)* 1.0 + 5	(Row count - 1)* 1.0 + 5
Overall Size 'Y' (mm)	(Row count - 1)* 0.8 + 3.4	(Row count - 1)* 0.8 + 5	(Row count - 1)* 1.0 + 3.5	(Row count - 1)* 1.0 + 5
Insulator Thickness inches (mm)	.120 (3.05)	1.87 (4.75)	.083 (2.11)	.170 (4.32) for 5.0mm .187 (4.75) for 5.5mm .227 (5.77) for 6.5mm
Stack Height(s) inches (mm)	0.217 (5.5)		0.197 (5.0) 0.217 (5.5) 0.256 (6.5)	

## 0.80mm Pitch

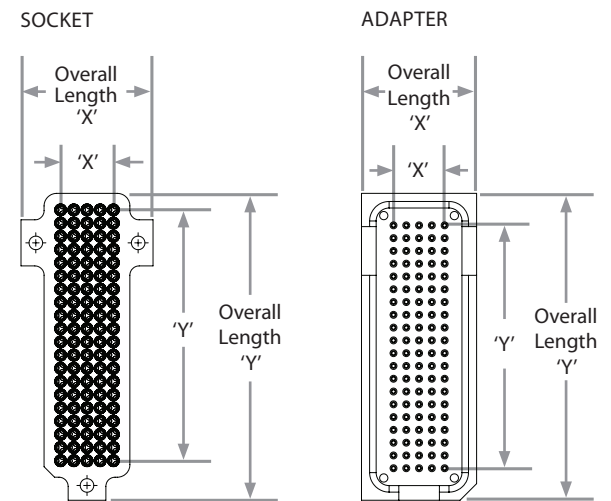
Part Numbers	Socket	Adapter
Leaded Tray Packed	BBJXXX-702GG	BAJXXX-736GG
Leaded Tape & Reel	BBJXXX-702GGTR	BAJXXX-736GGTR
Lead Free Tray Packed	BBJXXX-828GG	BAJXXX-829GG
Lead Free Tape & Reel	BBJXXX828GGTR	BAJXXX-829GGTR

## 1.0mm Pitch

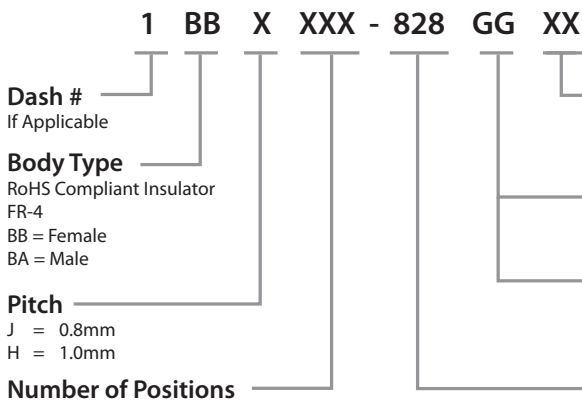
Part Numbers	Socket	5.0mm Stack Height	
		Adapter	Adapter
Leaded Tray Packed	BBHXXX-716GG	BAHXXX-882GG	
Leaded Tape & Reel	BBHXXX-716GGTR	BAHXXX-882GGTR	
Lead Free Tray Packed	BBHXXX-816GG	BAHXXX-880GG	
Lead Free Tape & Reel	BBHXXX-816GGTR	BAHXXX-880GGTR	

Part Numbers	5.5mm Stack Height		6.5mm Stack Height	
	Adapter	Adapter	Adapter	Adapter
Leaded Tray Packed	BAHXXX-737GG	BAHXXX-883GG		
Leaded Tape & Reel	BAHXXX-737GGTR	BAHXXX-883GGTR		
Lead Free Tray Packed	BAHXXX-824GG	BAHXXX-881GG		
Lead Free Tape & Reel	BAHXXX-824GGTR	BAHXXX-881GGTR		

## FOOTPRINT



## HOW TO ORDER



### Packaging Options

TR = Tape & Reel  
Blank = Tray Packaging

### Contact Plating

RoHS Compliant  
Gold Contact

### Terminal Plating

RoHS Compliant  
Gold Terminal

### SMT Terminal Type

#### 0.8mm Socket

Tin / Lead Type -702  
Lead Free Type -828

#### 0.8mm Adapter

Tin / Lead Type -736  
Lead Free Type -829

#### 1.0mm Socket

Tin / Lead Type -716  
Lead Free Type -816

#### 1.0mm Adapter, 5.0mm Mated Height

Tin / Lead Type -882  
Lead Free Type -880

#### 1.0mm Adapter, 5.5mm Mated Height

Tin / Lead Type -737  
Lead Free Type -824

#### 1.0mm Adapter, 6.5mm Mated Height

Tin / Lead Type -883  
Lead Free Type -881



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