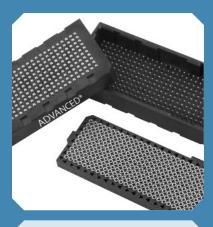
Board to Board Connectors



Features:

- Robust, shrouded design with screw-machined terminals and multi-finger contacts can withstand the rigorous demands of blind mating and mating/unmating cycles.
- At 3 amps per pin, more contacts can be assigned to data/signal transfer (fewer pins needed to handle power and ground).
- High density over 400 contacts per square inch.
- Industry standard footprints in four mated heights.
- Precision molded with integral polarization keying features.

Specifications:

Terminals:

Brass - Copper Alloy (C36000) ASTM-B-16

Contacts:

Beryllium Copper (C17200) ASTM-B-194

Solder Ball:

Standard: 63Sn/37Pb Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel

Gold per ASTM-B-488 Nickel per QQ-N-290



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B2B® High Density SMT Connectors .050/(1.27mm) Pitch

Table of Models



Description: Molded B2B® Connector (BB)

Material: High Temp. Liquid Crystal Polymer (LCP)

Index: -40°C to 260°C (-40°F to 500°F)

D REPUT ADVANCED

Description: Molded B2B® Connector (BA)

Material: High Temp. Liquid Crystal Polymer (LCP)

Index: -40°C to 260°C (-40°F to 500°F)

Performance

Mated Height	Differential Insertion Loss	rential Insertion Loss Differential Return Loss			
6.00mm	20dB @ 1.70 GHz 50dB @ 3.30 GHz	-10dB @ 3.30 GHz -15dB @ 1.70 GHz			
8.00mm	15dB @ 1.30 GHz 50dB @ 2.50 GHz	-10dB @ 2.50 GHz -15dB @ 1.30 GHz			
12.70mm	20dB @ 1.70 GHz 51dB @ 3.40 GHz	-10dB @ 3.40 GHz -15dB @ 1.70 GHz			
19.05mm	60dB @ 2.20 GHz 20dB @ 1.40 GHz	-10dB @ 2.20 GHz -15dB @ 1.40 GHz			

Insertion Force (6.00mm, 300 position):

50g average (per pin)

Durability (mated cycles):

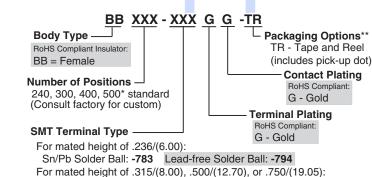
500 cycles (<10m Ω change in resistance)

Extraction Force (6.00mm, 300 position): 45g average (per pin)

Additional performance and test data available online.

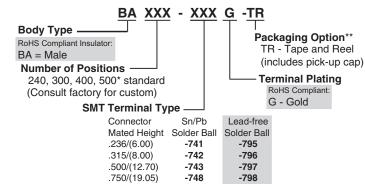
How To Order

Female



Sn/Pb Solder Ball: -739 Lead-free Solder Ball: -793

Male



^{*500} pos. available in 6mm mated height only.

^{*500} pos. available in 6mm mated height only.
**If no packaging code is indicated, female connectors are supplied with pick-up dots in standard trays.

^{**}If no packaging code is indicated, male connectors are supplied with pick-up caps in standard trays.

B2B® High Density SMT Connectors .050/(1.27mm) Pitch

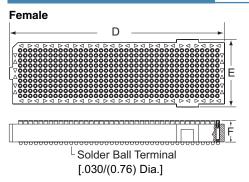
Standard Footprints · 240 Positions .050/(1.27)• 30x8 Rows → <.050/(1.27) Typ. .050/(1.27)· 300 Positions • 30x10 Rows → <.050/(1.27) Typ. .050/(1.27) 400 Positions Тур. 40x10 Rows → < .050/(1.27) Typ.</p> .050/(1.27)• 500 Positions Тур. 50x10 Rows

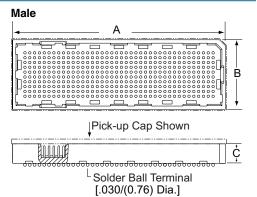
Consult factory for custom sizes.

Dimensional Information

→ <.050/(1.27) Typ.

.27mm Pitch



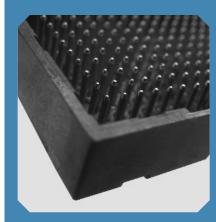


	Mated Board to Board Height*	A in./(mm)	B in./(mm)	C^ in./(mm)	D^ in./(mm)	E^ in./(mm)	F^ in./(mm)
Positions	.236/(6.00)	1.704/(43.28)	.622/(15.80)	.202/(5.13)	1.626/(41.30)	.567/(14.40)	.136/(3.45)
	.315/(8.00)	1.704/(43.28)	.622/(15.80)	.273/(6.93)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
	.500/(12.70)	1.704/(43.28)	.622/(15.80)	.462/(11.73)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
240	.750/(19.05)	1.704/(43.28)	.622/(15.80)	.712/(18.09)	1.626/(41.30)	.567/(14.40)	.211/(5.36)
ns	.236/(6.00)	1.704/(43.28)	.722/(18.34)	.202/(5.13)	1.626/(41.30)	.667/(16.94)	.136/(3.45)
400 Positions 300 Positions	.315/(8.00)	1.704/(43.28)	.722/(18.34)	.273/(6.93)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
	.500/(12.70)	1.704/(43.28)	.722/(18.34)	.462/(11.73)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
	.750/(19.05)	1.704/(43.28)	.722/(18.34)	.712/(18.09)	1.626/(41.30)	.667/(16.94)	.211/(5.36)
	.236/(6.00)	2.204/(55.98)	.722/(18.34)	.202/(5.13)	2.126/(54.00)	.667/(16.94)	.136/(3.45)
	.315/(8.00)	2.204/(55.98)	.722/(18.34)	.273/(6.93)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
	.500/(12.70)	2.204/(55.98)	.722/(18.34)	.462/(11.73)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
	.750/(19.05)	2.204/(55.98)	.722/(18.34)	.712/(18.09)	2.126/(54.00)	.667/(16.94)	.211/(5.36)
os.	.236/(6.00)	2.704/(68.68)	.722/(18.34)	.202/(5.13)	2.626/(66.70)	.667/(16.94)	.136/(3.45)
P							

Additional mated heights coming soon. Consult factory.

*Approximate dimension after soldering. ^Dimensions do not include solder ball height.

Board to Board Connectors



Packaging & Options:

Male connectors - supplied with

a pick-up cap to protect male pins and facilitate automated pick-andplace. Pick-up cap remains in place during reflow.



Female connectors - supplied with a polyimide dot to facilitate automated pick-and-place.

Tape and Reel - Add -TR to end of part number for Tape and Reel packaging.

Standard Trays - If no packaging code is indicated, connectors are shipped in standard trays (Note: Trays are not suitable for automated pick-and-place processes.)

Available Online:

- RoHS Qualification Test Report
- · Product Specification
- · Test data
- · Signal Integrity Data
- CAD Drawings



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inch/(mm) Products shown covered by patents issued and/or pending. Specifications subject to change without notice.