

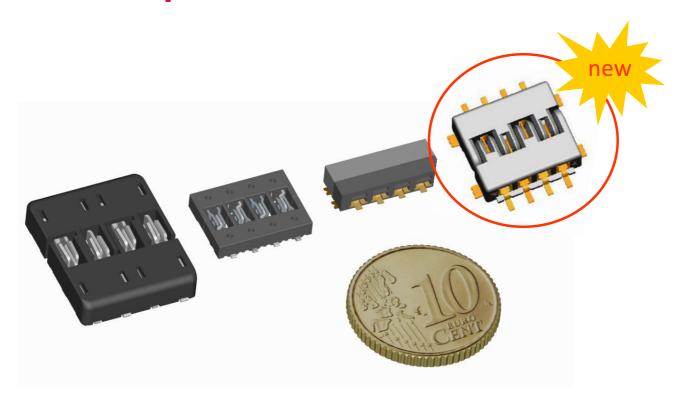


Rotatable Board-to-Board Connector



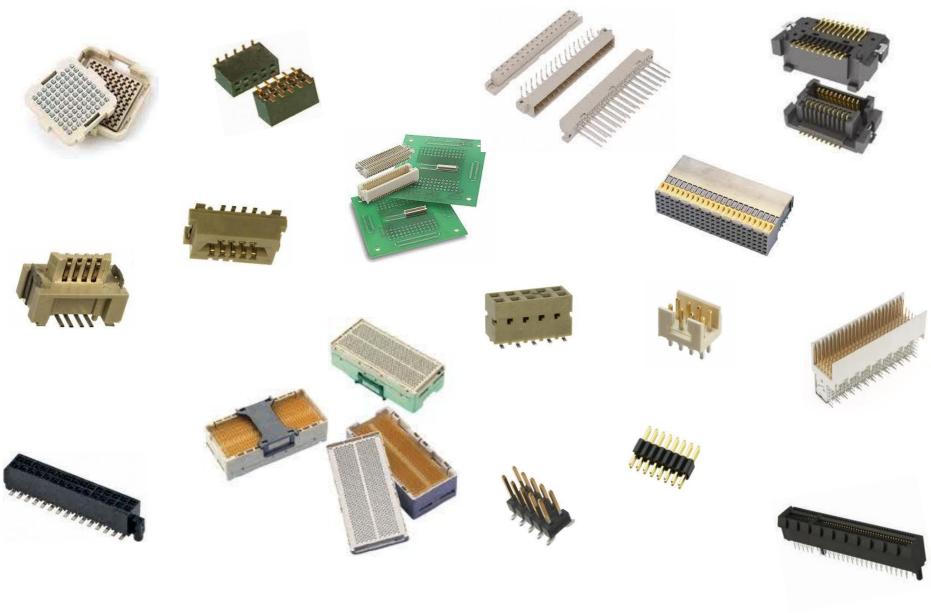


FCI's Rotatable Hermaphroditic BtB connector



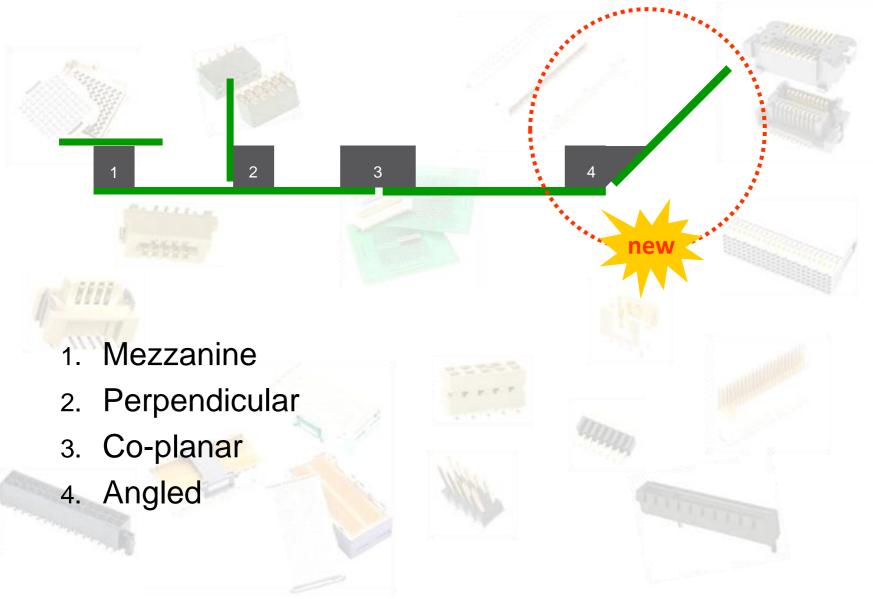
FCI offers many types of BtB interconnect...





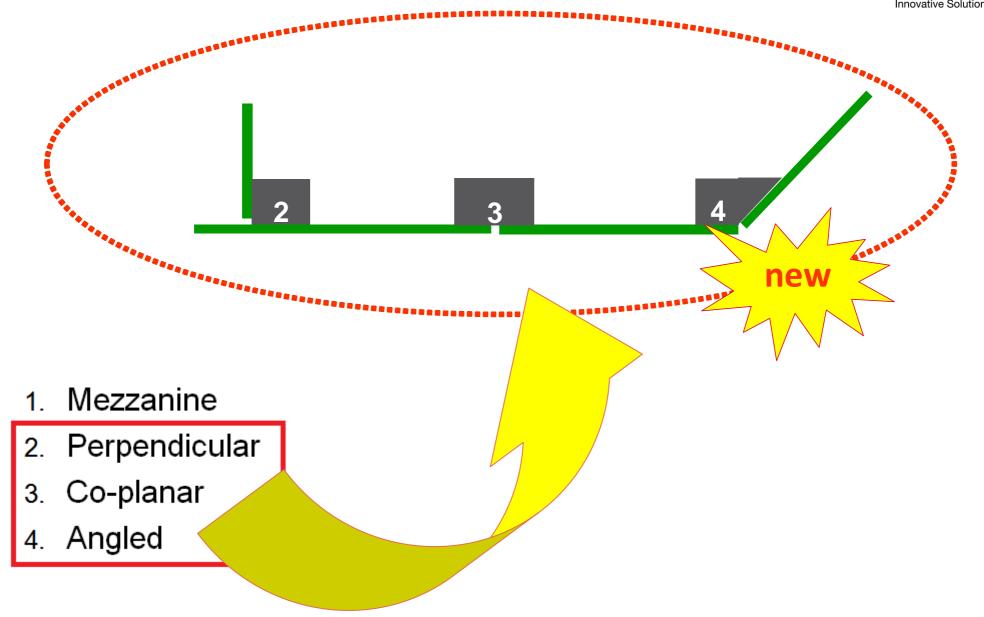
For 4 types of BtB connections...





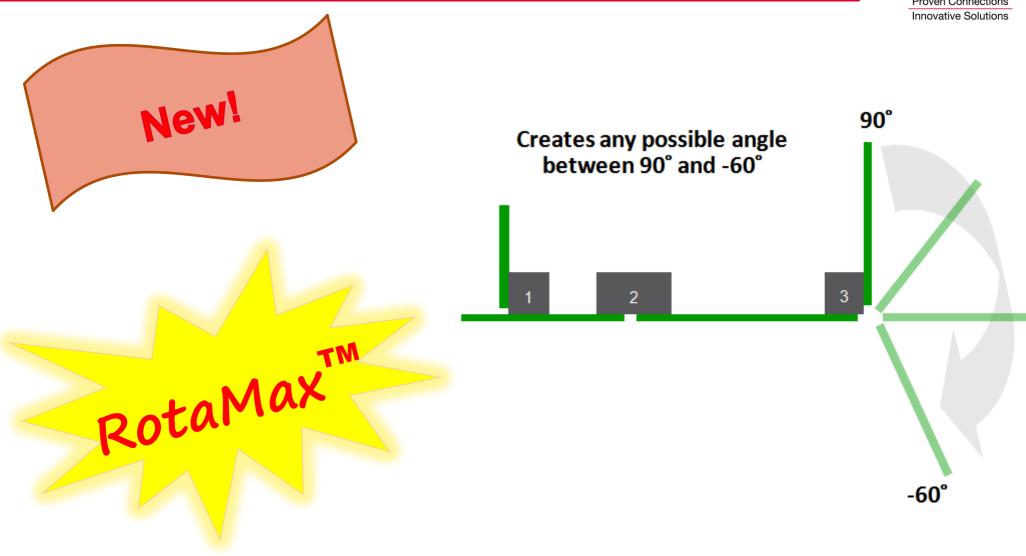
ONE new product covers 3 BtB types...





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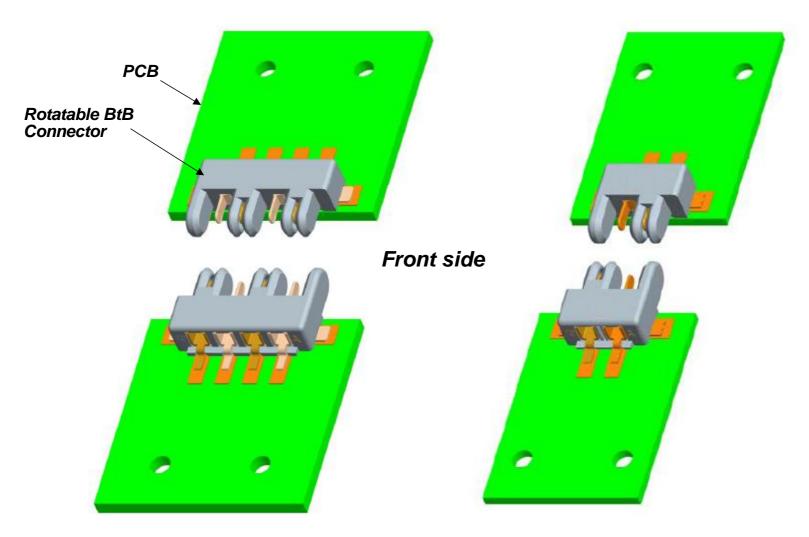




RotaMaxTM Product design



Single module (2 and 4 pos.)

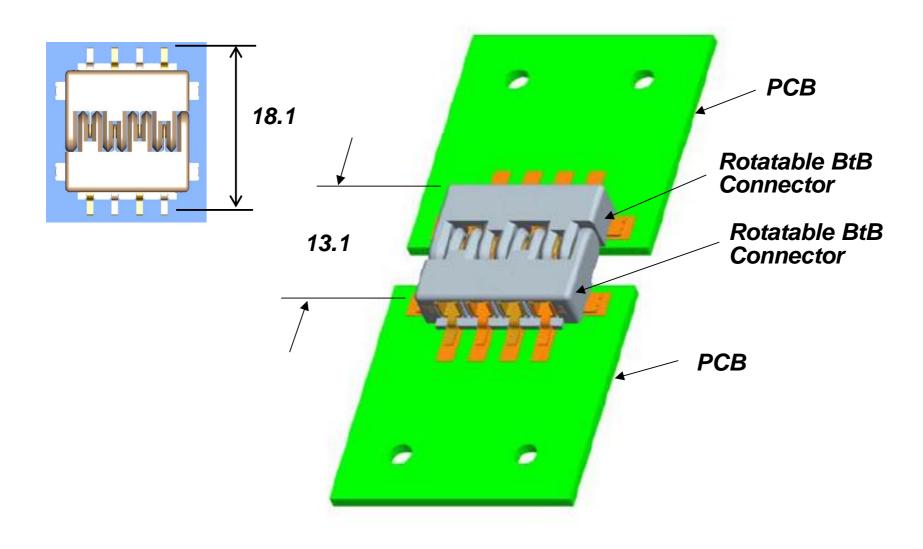


Back side

RotaMaxTM Product design



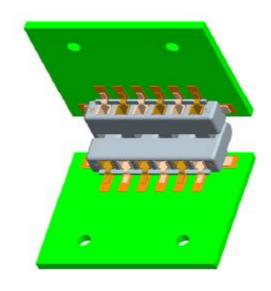
Horizontal View (4 positions)



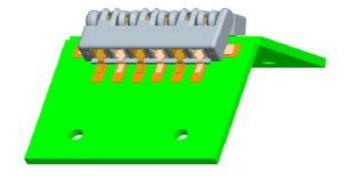
RotaMaxTM Product design



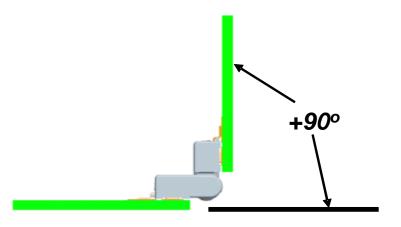
Rotated View

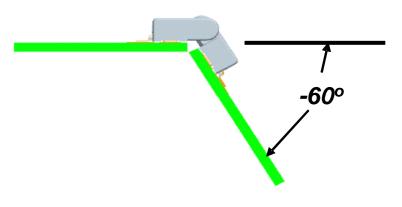


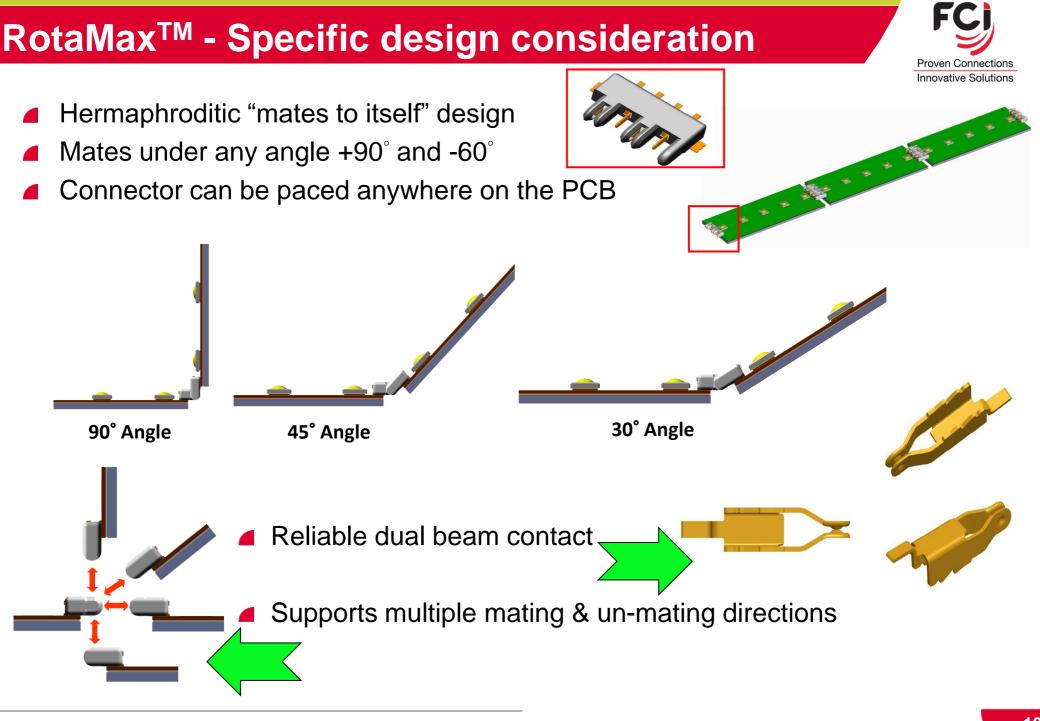
Rotate angle +90°



Rotate angle -60° (PCB T=1.57mm)



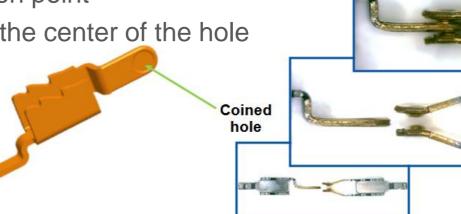




RotaMaxTM - Specific design consideration

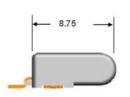


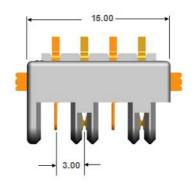
- Header contact contains a coined hole
- Center of the hole is the intended rotation point
- Receptacle contact will guide itself into the center of the hole
- Increased contact un-mating force



- Passive latch for housing retention
- Pins are protected by housing
- Housing design prevents mis-mating
- Dual beam spring contact system
- Hold down for PCB retention



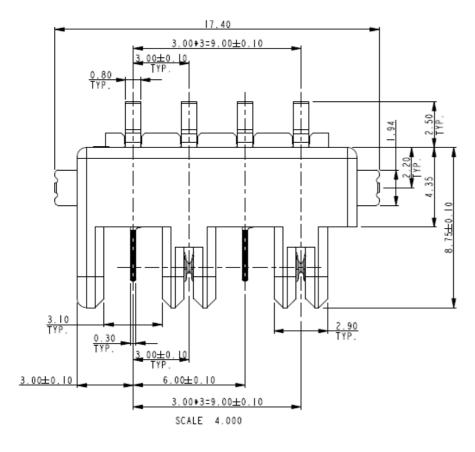


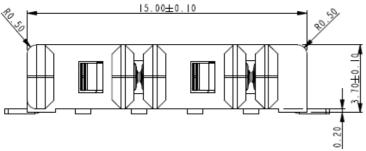


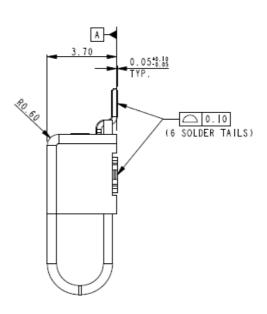


RotaMaxTM dimensions









"Standard version"

RotaMaxTM Specifications



Preliminary Specification

Hermaphroditic: mates to itself (1 Part number)

Contact System: dual beam spring contact

Positions:
2 up to 14 (increments of 2)

✓ Pitch: 3.00mm

Current rating: up to 5A

✓ Operating Temp.: -40°C up to +105°C

✓ Plating: GXT or Tin over nickel

■ Housing: LCP (UL94V0); color: natural

GWFI (IEC 60695-2-12): +650°C

Mating cycles: 20

Mating angle: all in between 90° and - 60°

Working prototypes: Available as display samples in limited quantity

■ Product Launch: May 2013 (fully qualified products)

■ Target Applications: Control Boards; Sensors; Actuators; Rigid LED Strips; Automotive Electronics; etc.

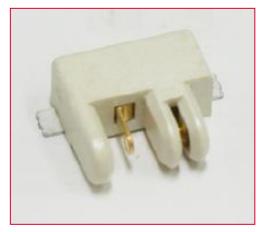
Competitive Analysis



	TYCO Hermaphroditic	TYCO Mini Hermaphroditic	AVX 9159BtB	FCI′s RotaMax [™]	
Pitch	4.00mm	3.00mm	3.00mm	3.00mm	
Positions	2,4,6	2, 4, 6	2, 3, 4, 5, 6	2, 4, 6, 8, 10, 12, 14	
4# mated dimensions H x L x D(mm)	3.9 x 15.9 x 19.8	2.3 x 13.0 x 10.8	3.0 x 14.0 x 6.0	3.7x 15.0 x 13.1	
Durability	10 cycles	10 cycles	10 cycles	20 cycles	
Current rating per contact	5 A	3 A	5 A	5 A Diffe	erenti
Operating Voltage	125V AC	125V AC	125 V AC	125 V AC	
Operating Temp	-40°C to 105°C	-40°C to 105°C	-40°C to 125°C	-40°C to +125°C	
BtB Connections	90° or 180°	180°	180° or 90° (special)	-60° up to +90°	
Plating	Tin over Nickel	Tin over Nickel	Gold over Nickel	GXT over Nickel	
Contact system	Hermaphroditic, dual beam	Hermaphroditic, dual beam	Blade on beam, plug + socket	Hermaphroditic, dual beam	
Guiding, Polarization	no	no	Guiding	Guiding and polarization	
Pins protected during mating	no	no	yes	Yes	
Housing material	LCP (UL 94V0)	LCP (UL 94V0)	Nylon 46 (UL 94V0)	LCP (UL 94V0)	
Floating allowance	no	no	no	Y + Z direction (special)	
Price/line 4pos. / 50Kpcs	\$ 0.06	\$ 0.05	\$ 0.06	\$ 0.07	
Accessories	Dust cap; Cable Connector	Dust cap	Latch; Cable Connector	Optional Pegs	
PCB support	no	no	2 solder tabs	2 solder tabs	

FCI's RotaMaxTM







- NOT just another "LED connector"....
- UNIQUE concept
 - Mating angles
 - Angled connections
 - Floating allowance
 - Protected pins
- For DEMANDING applications

