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## Tiny Connector

- High density.

**IMP** connector needs only 22.2 mm<sup>2</sup> on board (5.7x3.9).

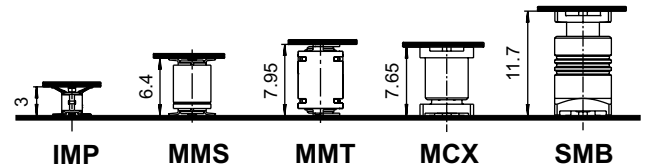
- World's lightest connector.

**IMP** board to board link weight is only 0.02 g.

- World's lowest profile for a board to board adapter.

**IMP** height is 3 mm !

- Others heights possible. Please contact us.



Scale : 1/1

## Industry approval

- Design adapted to automated pick and placement machines

The footprint of the **IMP** connector allows video-positioning using the component's shadow to facilitate its placement (page 10).

The **IMP** connector is fully compatible with automated pick and place machines.

- Packaging

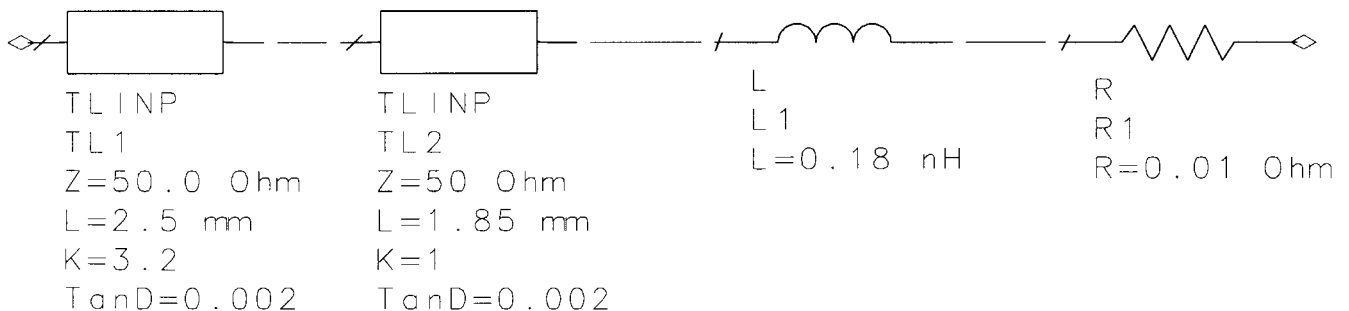
The **IMP** connector is packaged in reels of antistatic plastic embossed tape (page 8) containing either 600 or 2500 **IMP** connectors.

The cavity geometry is designed for a perfect positioning of the component.

## Many applications

- Wide frequency range up to 6 Ghz.
- Custom height and custom diameter on board are possible upon request.

### SPICE MODEL OF IMP SERIES





<b>50 Ω</b>	<b>DC - 6 GHz</b>
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### GENERAL

- Ultra low profile coaxial connectors
- Surface mount connectors
- Press-on electrical contact
- Fully compatible with automated pick and place machines
- High RF performance
- Radial patent

### APPLICATIONS

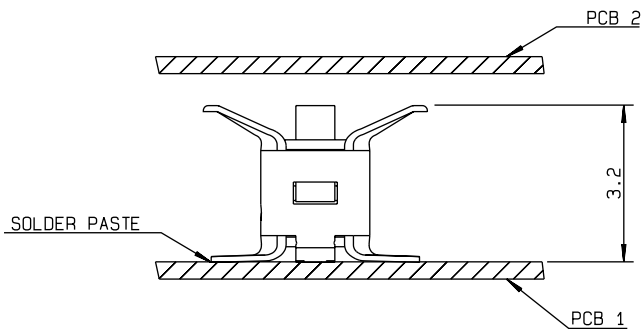
- Board to board applications

### MARKETS

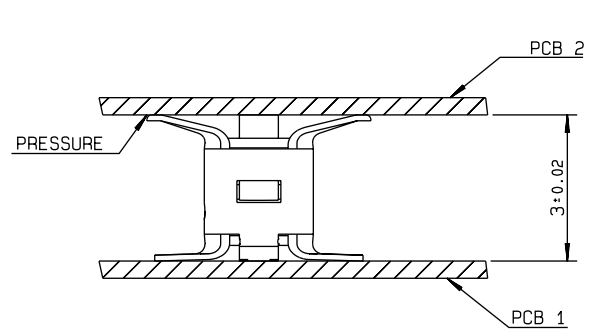
- WLAN
- Mobile phone
- Terminals
- Automotive

### PROFILE

#### NO PRESSURE



#### UNDER PRESSURE





	TEST STANDARD	RESULTS
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### ELECTRICAL CHARACTERISTICS

Impedance		50Ω
Frequency range		DC - 6 GHz
V.S.W.R.	CECC 22 000	1.10+0.03 F (F in GHz)
Insertion loss (dB)	CECC 22 000	0.2 √F (F in GHz)
Insulation resistance	CECC 22 000	3000 MΩ min
Contact resistance		
center contact	CECC 22 000	15 mΩ
outer contact	CECC 22 000	5 mΩ
Working voltage in VRMS	CECC 22 000	100
Dielectric withstanding voltage in VRMS	CECC 22 000	350

### MECHANICAL CHARACTERISTICS

Durability	CECC 22 000	20 matings
Weight (g)	CECC 22 000	0.02

### ENVIRONMENTAL CHARACTERISTICS

Temperature range	CECC 22 000	-40°C , +90°C
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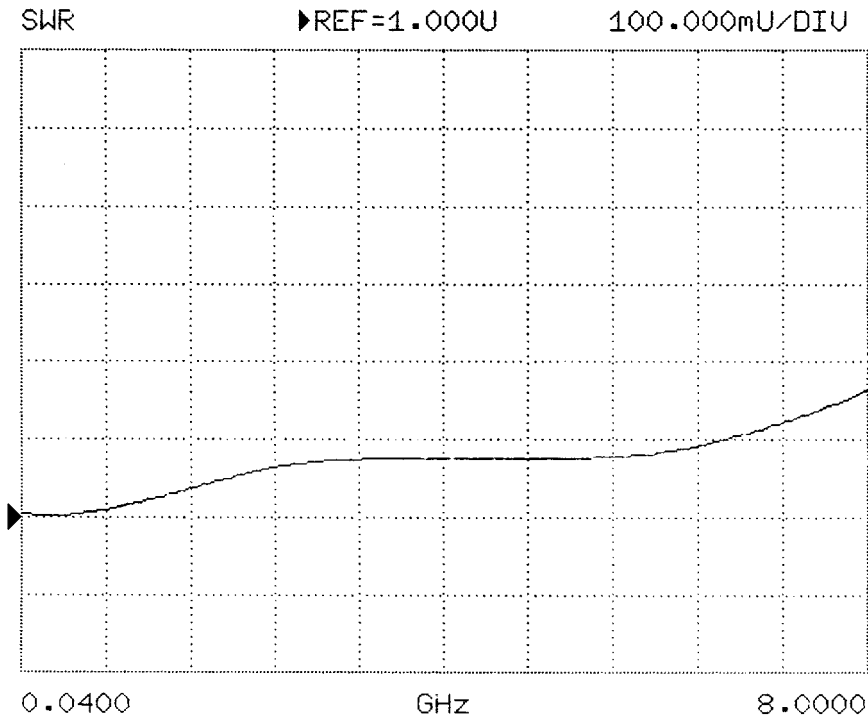
### MATERIALS

Bodies		Beryllium copper
Center contact		Beryllium copper
Outer contact		Beryllium copper
Insulator		Polyether etherctone 30% GF

### PLATINGS

Bodies		Gold
Center contact		Gold
Outer contact		Gold

Power : at sea level, at 20°C, 3 Ghz max : 20 W



Frequency	Typical VSWR
1 GHz	1.01
2 GHz	1.04
3 GHz	1.06
4 GHz	1.08
5 GHz	1.08
6 GHz	1.08