Precision Compression-Mount Microwave Test Connectors

molex

Molex's Precision Compression-Mount Microwave Test Connectors optimize design flexibility and reduce installation time while achieving up to 65 GHz analog performance over 20 Gbps

Precision Compression-Mount Microwave Test Connectors

Features and Advantages

1.85mm version 65 GHz analog signals	Provides high-bandwidth performance for high-speed (over 20 Gbps) digital test boards. The only 65 GHz compression-mounted connector on the market
2.92mm version 40 GHz analog signals	Provides a lower-cost alternative over the 1.85 and 2.4mm version including associated accessories, terminations and adapters
Unique compression-mount design using two 0-80 UNF screws	Reduces installation time by eliminating soldering from the process. Accommodates board thicknesses 0.57 to 2.79mm; more options available upon request. Provides a continuous ground connection between the connector and PCB
1.85mm, 2.4mm and 2.92mm mating interfaces	Offers compatibility with network analyzer cables
Vertical-mount design	Increases density by enabling more test connectors to be placed around the Device Under Test (DUT) versus competitor's solder-mount processes. Facilitates placement anywhere on the PCB for testing flexibility
Integrated center pin design	Optimizes interface dimensions after mounting to the PCB. Provides low reflections for accurate measurements
Durable stainless-steel body	Withstands over 500 mating cycles

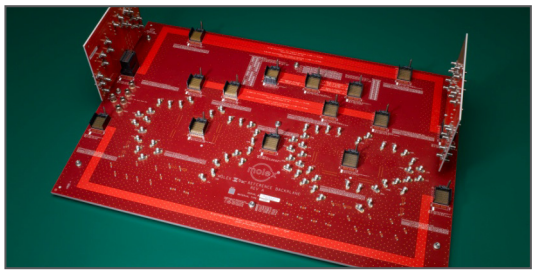
Applications

Datacommunication and Telecommunication Applications

- Test and Characterization Boards
- Reference Backplanes
- High-Speed Backplanes

Test and Measurement Equipment

Chip Manufacturers



Reference Backplane

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Specifications

REFERENCE INFORMATION
Packaging: Tray
Mates With: 1.85mm, 2.4mm or 2.92mm Male Plug (available on the customer's test equipment cable end)
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

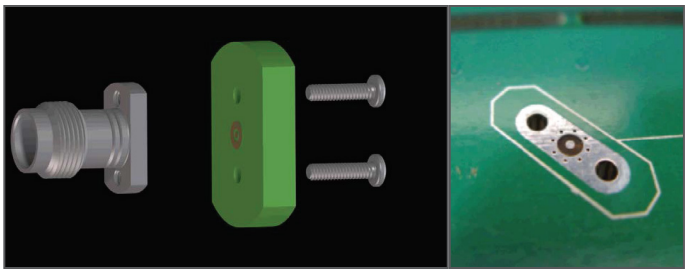
MECHANICAL
Mating Force (max.): .23N
Durability (min.): 500 cycles

ELECTRICAL
Contact Resistance:
Center Contact — <3 mΩ
Outer Contact — <2 mΩ
Dielectric Withstanding Voltage:
500V RMS
Insulation Resistance:
5,000 Megohms
Voltage Standing Wave Ration (max.):
DC to 26.5 GHz — 1.10
26.5 to 40 GHz — 1.20
40 to 50 GHz — 1.30
(2.4mm and 1.85mm only)
RF Leakage: <-100dB
RF Insertion Loss (max.):
0.03 x √f (GHz) dB

PHYSICAL
Housing: Stainless Steel Passivated
Contact: Beryllium Copper
Plating:
Center Contact — Gold (Au) over Nickel (Ni)
PCB Thickness:
0.57 to 2.79mm = standard;
more options available upon request
Operating Temperature: 0 to +165 °C

Additional Product Features

Innovative design includes two 0-80 UNF screws for mounting the receptacle to the PCB, eliminating soldering



Mounting method illustration depicting two 0-80 UNF screws for mounting the receptacle to the PCB, eliminating soldering

Actual launch pad on which the connector mounts

Ordering Information

Order No.	Interface Style	Mounting Screw Length
73157-0000	1.85mm	None
73157-0001		4.76mm
73157-0002		6.35mm
73387-0020	2.40mm	4.76mm
73387-0021		6.35mm
73387-0022		None
73252-0090	2.92mm	4.76mm
73252-0091		6.35mm
73252-0092		None
73251-1850	SMA	None
73251-1851		4.76mm
73251-1853		6.35mm

www.molex.com/link/precision.html

Order No. 987650-7341 Rev. 3 USA/0k/GF/2018.08