



Providing the digital testing industry’s only vertical PCB launch configuration, Molex’s innovative Precision 2.4mm and 2.92mm Compression-Mount Test Connectors optimize design flexibility and reduce installation time while achieving up to 50 GHz analog performance for high-speed digital systems over 20 Gbps

Realize improved testing capability with Molex’s Precision 2.4mm and 2.92mm Compression-Mount Test Connectors. Designed with a vertical launch configuration and a unique compression-mount design, customers can create test points virtually anywhere on the PCB, enabling unparalleled design flexibility.

The Precision 2.4mm Compression-Mount Test Connectors mate to 2.4mm male (plug) connectors, available on the customer’s test equipment cable end. The Precision 2.4mm Compression-Mount Test Connectors are an extension of the Precision Optimized SMA Test Connectors (Series 73251).

The 2.92mm Compression-Mount Test Connectors mate to 2.92mm male (plug) connectors commonly found on the customers cable or adapters with their test equipment.

For additional information visit: www.molex.com/link/precision.html

Precision Test Connectors

- 73387 2.4mm, 50 GHz Analog Signals
- 73252 2.92mm, 40 GHz Analog Signals



2.4mm and 2.92mm Vertical Compression-Mount Precision Test Connectors

Features and Benefits

2.4mm version for 50 GHz analog signals	Provides high-bandwidth performance for high-speed (over 20 Gbps) digital test boards. The only 50 GHz compression mounted connector on the market
2.92mm version for 40 GHz analog signals	A lower cost alternative over the 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
2.4mm and 2.92mm mating interfaces	Compatible with network analyzer cables
Vertical-mount design	Can be located anywhere on the PCB for increased PCB density
Integrated center pin design	Optimizes interface dimensions after mounting to the PCB. Provides low reflections for accurate measurements
Stainless-steel body	Durable housing to withstand over 500 mating cycles

Specifications

Reference Information

Packaging: Tray
 Mates With:
 2.4mm or 2.92mm Male Plug
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes
 Mechanical
 Mating Force: .23N meters max.
 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 Ratio:
 DC to 26.5 GHz — 1.10 max.
 26.5 to 40 GHz — 1.15 max.
 40 to 50 GHz — 1.20 max.
 (2.4mm only)
 RF Leakage: <-100dB
 RF Insertion Loss:
 0.03 x √f (GHz) dB max.

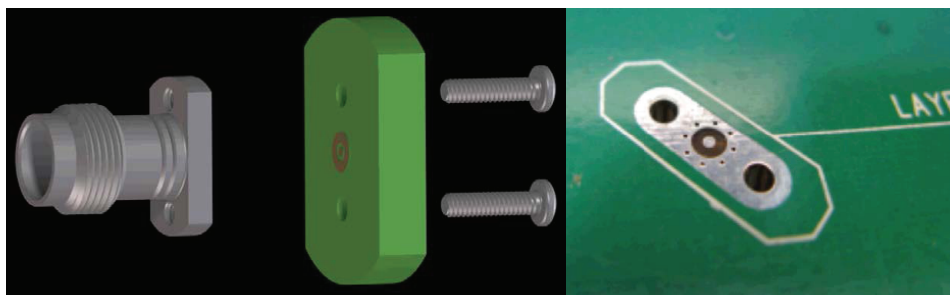
Precision Test Connectors

Physical

Housing: Stainless Steel
 Contact: Beryllium Copper
 Plating:
 Center Contact — Gold (Au)
 Under Plating — 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
- The 2.4mm connector is a product extension of Molex's 27 GHz SMA connector (73251-1850)



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

Applications

Datacommunication and Telecommunication Applications

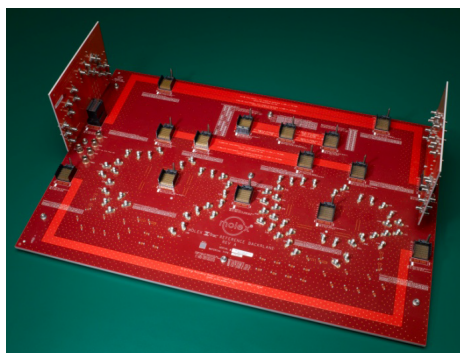
- Test and Characterization Boards
- Reference Backplanes
- High-Speed Backplanes

Test and Measurement Equipment

Chip Manufacturers

Other Markets

- Competitors making high-speed digital connectors



Reference Backplane

Ordering Information

Order No.	Interface Style	Mounting Screw Length
73387-0020	2.4mm	4.76mm
73387-0021		6.35mm
73387-0022		None
73252-0090	2.92mm	4.76mm
73252-0091		6.35mm
73252-0092		None