

Solderless High-Frequency Precision PCB Connectors >

Solderless High-Frequency Precision PCB Connectors offer a versatile, robust, reusable, compact and easy-to-install RF coaxial connection to microstrip transmission lines. They are ideal for single- or multi-layer PCBs up to 110 GHz.



ADVANTAGES AND FEATURES

Offers high-precision electrical performance

Low VSWR and insertion loss enable use with precision test and measurement applications while available end-launch connectors with the contact parallel to the signal trace enhance electrical performance.

Enhances flexibility with a range of size and frequency options

The 1.0, 1.85, 2.4 and 2.92mm connectors designed for single- and multi-layer PCBs are available from multiple distributors, easing sourcing challenges.

Frequencies	DC to 110 GHz
Impedance	50 Ohms
Connectors	1.0, 1.85, 2.4, 2.92mm
Attachment	Mechanical (screw)
Material	Passivated stainless steel (body), gold-plated beryllium copper (contact)
Operating Temperatures	-55 to +125°C

Reduces costs by utilizing a reusable design

The solderless screw-attachment method permits easy installation on the PCB and supports simple removal and reuse.

Facilitates use with high-density and compact applications

The compact narrow-block design requires a smaller footprint, allowing PCB signal traces to be located closer together.



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MARKETS AND APPLICATIONS

Wireless Infrastructure

Benchtop test and measurement equipment
Field-portable test equipment

Aerospace

Radar systems

Defense

Electronic defense systems
Military communications equipment

Telecommunications

5G microwave backhaul systems
Point-to-point radios

Networking

High-speed signal integrity test boards



*Benchtop Test and
Measurement Equipment*



Radar Systems



5G Microwave Backhaul Systems

SPECIFICATIONS

Reference Information

Packaging: Individually bagged
Designed in: Millimeters
RoHS: Yes

Electrical

Operating Frequency Range:
1.0mm—DC to 110 GHz
1.85mm—DC to 67 GHz
2.4mm—DC to 50 GHz
2.92mm—DC to 40 GHz
VSWR (max.):
1.0mm—1.9:1 @ 110 GHz
1.85mm—1.4:1 @ 67 GHz
2.4mm—1.2:1 @ 50 GHz
2.92mm—1.15:1 @ 40 GHz

Mechanical

Connectors: 1.0, 1.85, 2.4, 2.92mm
Configurations: End launch, vertical launch jacks
Attachment Method: Mechanical (screw)
Durability (min.): 500 cycles

Physical

Contact: Gold-plated beryllium copper
Other Metal Parts: Passivated stainless steel
Operating Temperatures: -55 to +125°C