



Overview

Amphenol RF offers precision 2.92 mm adapters available in a variety of in-series and between-series configurations engineered for high-frequency performance up to 40 GHz. These adapters feature a rugged, compact design which ensures durability and repeatability, and delivers low VSWR and consistent signal integrity in demanding environments.

2.92 mm adapters provide flexibility for system design and integration. The threaded interface provides a secure coupling mechanism which is ideal for test and measurement, broadband, military, aerospace and satellite communications. These adapters help to reduce signal loss, improve system accuracy and extend the frequency capabilities of critical RF assemblies.

Features and Benefits

- Reliable electrical performance up to 40 GHz
- Air-dielectric interface
- MIL-STD-348 compliant interface
- Wide operating temperature range

Applications

- Laboratory and R&D test benches
- RF and microwave production tests
- High-speed communications
- Communications and radar system evaluations
- High-frequency module characterization

Ordering Information

2.92 mm to 2.92 mm Adapters

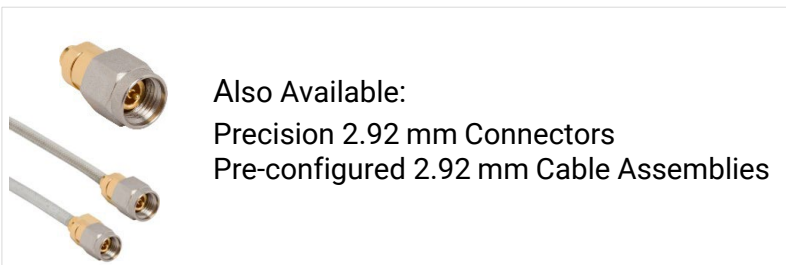
Part Number	Description
AD-292J292J-1	2.92 mm Jack to 2.92 mm Jack, Straight
AD-292P292P-1	2.92 mm Plug to 2.92 mm Plug, Straight
AD-292P292J-1	2.92 mm Plug to 2.92 mm Jack, Straight

2.92 mm to 2.4 mm Adapters

Part Number	Description
AD-24J292P-1	2.92 mm Jack to 2.4 mm Plug, Straight
AD-24J292J-1	2.92 mm Plug to 2.4 mm Jack, Straight

2.92 to SMA Adapters

Part Number	Description
AD-292JSMAP-1	2.92 mm Jack to SMA Plug, Straight
AD-292PSMAP-1	2.92 mm Plug to SMA Plug, Straight
AD-292PSMAJ-1	2.92 mm Plug to SMA Jack, Straight
AD-292JSMAJ-1	2.92 mm Jack to SMA Jack, Straight



Also Available:
Precision 2.92 mm Connectors
Pre-configured 2.92 mm Cable Assemblies

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Amphenol® RF

Technical Specifications

Electrical

	2.92 mm – 2.92 mm	2.92 mm – 2.4 mm	2.92 mm – SMA
Impedance	50 Ω		
Frequency Range	DC – 40 GHz	DC – 40 GHz	DC – 26.5 GHz
Return Loss (VSWR)	1.20 Max.	1.25 Max.	1.40 Max. (18 – 22 GHz)
Dielectric Withstanding Voltage	500 VRMS Min.		

Mechanical

Mating Cycles	500 Min.		
Coupling Mechanism	Threaded		
Temperature Range	–65°C to +165°C	–40°C to +125°C	–65°C to +165°C

Materials

Body	Stainless Steel, Passivated		
Contact	Beryllium Copper, Gold-Plated		
Insulator	PTFE, Ultem 1000	Ultem	PTFE, Ultem 1000
Gasket	Silicone Rubber	N/A	Silicone Rubber
Retaining Ring	SUS 304	N/A	SUS 304

Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.

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