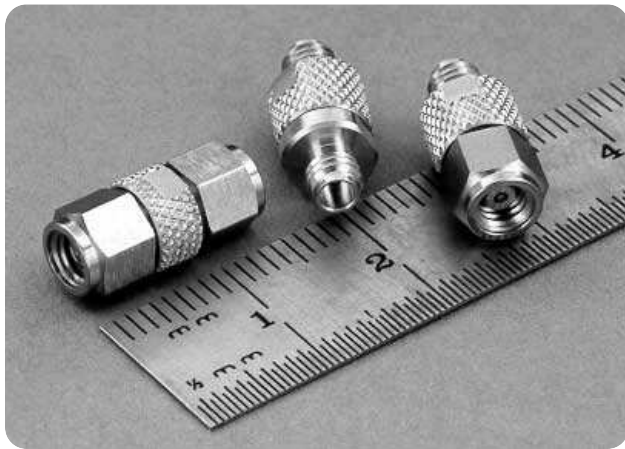


Agilent 11920/1/2 Series 1, 1.85, 2.4 mm Coaxial Adapters

Technical Overview



Agilent 11920A/B/C/D Adapters

- **Increased measurement versatility**
- **Ease-of-use for On Wafer and Coaxial measurements**



Agilent 11921E/F/G/H Adapters



Agilent 11922A/B/C/D Adapters



Increased measurement versatility

For Microwave and RF engineers making coax measurements at 50, 67 or 110 GHz, the Agilent Technologies 11920/1/2 series 1 mm adapters provide an easy way of measuring coaxial devices at high frequencies. The 11920 A/B/C, 1 mm to 1 mm are designed for the measurement of components with 50 ohm 1 mm connectors. The 11921 E/F/G/H, 1 mm to 1.85 mm and the 11922 A/B/C/D, 1 mm to 2.4 mm are intended to be used as general purpose adapters that are versatile and interchangeable. These adapters increase the capability needed to use test systems, such as the N5250A millimeter-wave PNA Series.

Ease of use for On Wafer and Coaxial measurements

Each connector has an air dielectric interface and a center conductor that is supported by a low-loss plastic bead. Available with male and female connectors, these 1 mm adapters provide ease-of-use for microwave engineers who need to connect their test systems. The 1 mm adapters allow engineers to make fewer connections directly to their test port while maintaining the accuracy of their test system.

Specifications

Specifications describe the instrument's warranted performance over the temperature range 0 °C to 55 °C (except where noted). Supplemental characteristics are intended to provide information useful in applying the instrument by giving typical but nonwarranted performance parameters. These are denoted as "typical," "nominal," or "approximate."

1 mm to 1 mm Adapters

Model Number	Coax connector Type	Frequency (GHz)	Supplemental characteristics			
			Return loss better than:	Insertion loss better than:	Repeatability typically better than:	Max CW Power
11920A	(m) to (m)	dc to 20	-24 dB	-0.5 dB	-35 dB	10 W
11920B	(f) to (f)	20 to 50	-20 dB			
11920C	(m) to (f)	50 to 75	-18 dB			
		75 to 110	-14 dB			

1 mm to 1.85 mm Adapters

Model Number	Coax connector Type	Frequency (GHz)	Supplemental characteristics			
			Return loss better than:	Insertion loss better than:	Repeatability typically better than:	Max CW Power
11921E	(m) to (m)	dc to 67	-20 dB	-0.5 dB	1 mm -35 dB	10 W
11921F	(f) to (f)				1.85 mm -40 dB	
11921G	(m) to (f)					
11921H	(f) to (m)					

1 mm to 2.4 mm Adapters

Model Number	Coax connector Type	Frequency (GHz)	Supplemental characteristics			
			Return loss better than:	Insertion loss better than:	Repeatability typically better than:	Max CW Power
11922A	(m) to (m)	dc to 50	-20 dB	-0.7 dB	1 mm -35 dB	10 W
11922B	(f) to (f)				2.4 mm -44 dB	
11922C	(m) to (f)					
11922D	(f) to (m)					

Environmental Specifications

	Operating	Non-operating
Temperature	0 °C to 55 °C	–40 °C to 75 °C
Altitude	<15.000 meters (≈ 50.000 feet)	<15.000 meters (≈ 50.000 feet)

Note: *The operating temperature is a critical factor in the performance during measurements and between calibrations. Storage or operation within an environment other than that specified above may cause damage to the product and may void the warranty.*

Non-operating environmental specifications apply to storage and shipment. Products should be stored in a clean, dry environment. Operating environmental specifications apply when the product is in use. Products should not be operated in a condensing environment.

Web Resource

For more information about RF and microwave test accessories visit our web site:

www.agilent.com/find/accessories



Agilent Email Updates

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(tel) (82 2) 2004 5004

(fax) (82 2) 2004 5115

Latin America:

(tel) (305) 269 7500

(fax) (305) 269 7599

Taiwan:

(tel) 0800 047 866

(fax) 0800 286 331

Other Asia Pacific Countries:

(tel) (65) 6375 8100

(fax) (65) 6836 0252

Email:

tm_asia@agilent.com

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