

# Keysight Technologies

11920/1/2 Series

1, 1.85, 2.4 mm Coaxial Adapters

## Technical Overview

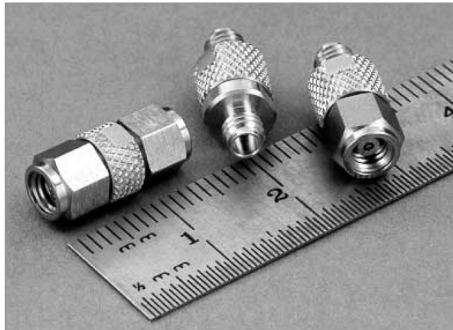
- Increased measurement versatility
- Ease-of-use for On Wafer and Coaxial measurements

## Increased measurement versatility

For Microwave and RF engineers making coax measurements at 50, 67 or 110 GHz, the Keysight Technologies, Inc. 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.



Keysight 11920A/B/C/D Adapters



Keysight 11921E/F/G/H Adapters



Keysight 11922A/B/C/D Adapters

## 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

### Supplemental characteristics

Model Number	Coax connector Type	Frequency (GHz)	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

### Supplemental characteristics

Model Number	Coax connector Type	Frequency (GHz)	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

### Supplemental characteristics

Model Number	Coax connector Type	Frequency (GHz)	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)B					

## Environmental Specifications

**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.

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.

	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)

## Web Resource

For more information about RF and microwave test accessories visit our web site:  
[www.keysight.com/find/accessories](http://www.keysight.com/find/accessories)

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