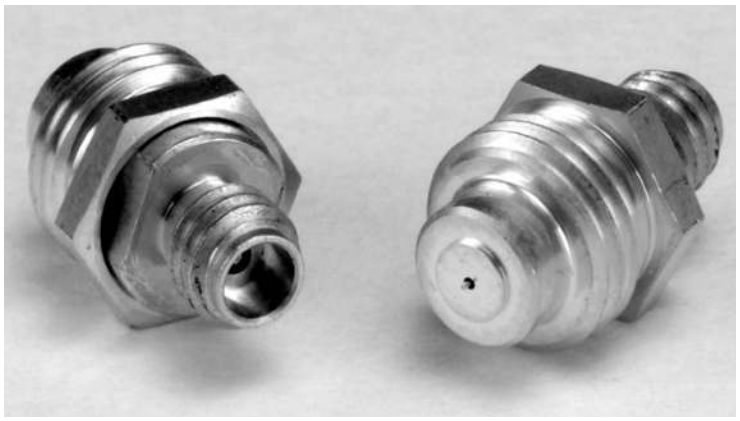
Keysight Technologies
11923A Connectors

Product Overview



A pair of 1.0 mm female connector launch assemblies. Left: 1.0 mm female connector end Right: Package end with 0.162 mm diameter pin

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Flexible micro-circuit packaging

The Keysight Technologies, Inc. 11923A 1.0 mm female-connector launch threads into a package or fixture housing to transition a microwave circuit from microstrip to coaxial connector. The 11923A connector launch is intended for use with 8510XF and other test systems up to 110 GHz. The 11923A 1.0 mm female connector has an air dielectric interface and center conductor that is supported by a low-loss plastic bead on one end, and a glass-to-metal seal interface on the other end. This interface consists of a 0.162 mm diameter pin that extends inside the package or fixture for connection onto a microwave circuit.

The Keysight 11923A is preassembled and supplied with a machining detail for mounting the launch and assembly instructions (see Figure 1). The user is responsible for making the connection onto the circuit card, machining the package, and installing the connector. If a quasi-hermetic seal is desired, epoxy may be applied to threads of the launch prior to installation. The procedure describing the necessary dimensions for the package and installation is provided with the launch assembly.

Specifications

Specifications describe the instrument's warranted performance over the temperature range 0° to 55° C (except where noted).

Supplemental characteristics are intended to provide information for applying the instrument by giving typical but nonwarranted performance parameters. These are noted as "typical," "nominal," or "approximate."

1.0 mm (f) connector launch

Model number	Coax connector type	Frequency (GHz)	Insertion loss better than:
11923A	(f) to circuit card launch	dc –110	–1.0 dB

Supplemental characteristics

Model number	Return loss better than:	Max CW power
11923A	–16 dB	6W

Environmental specifications

	Operating	Non-operating
Temperature	0° to 55° C	–40° 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.

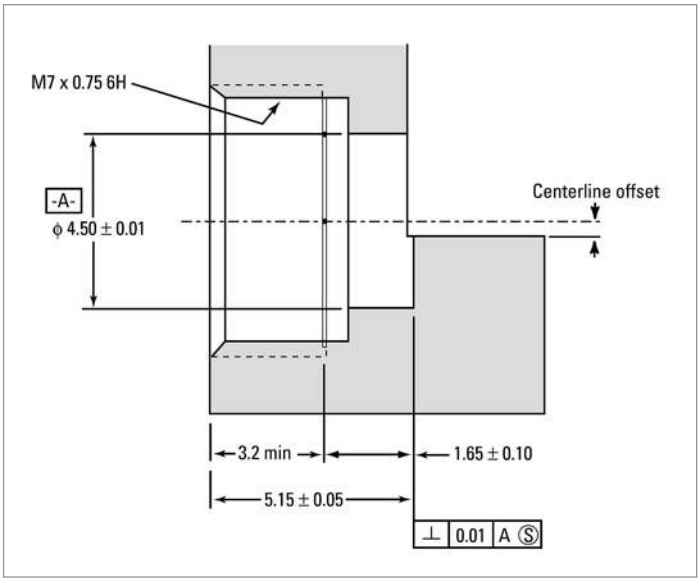

Figure 1. Section view of machining detail for mounting the launch

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.

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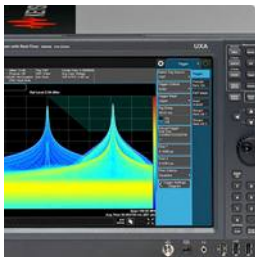

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