

90 Degree Coaxial Adapter 2.92mm-Male to 2.92mm-Female DC - 40GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Product Description

RFCARAKMKFL is a 90 degree coaxial adapter with a frequency range of DC to 40GHz.

The max VSWR of 1.25:1.

The working temperature of this product is between -55°C and +165°C.

Features

- Wide band operation
- Low VSWR
- 50 Ohm Matched

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications ($T_A=+25^{\circ}\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.25	: 1
Impedance		50		Ohms
Polarity		Standard		
Connectors		2.92mm-Male to 2.92mm-Female		

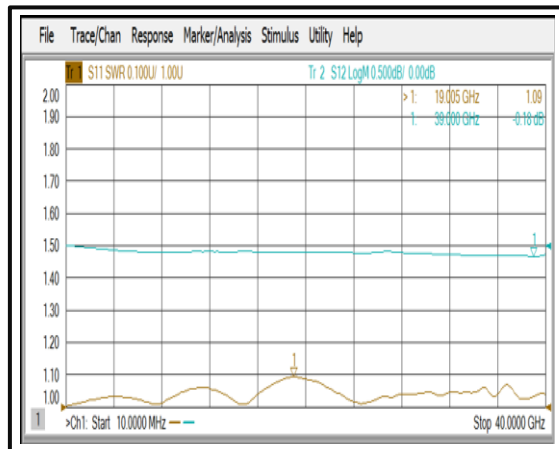
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-55°C to +165°C (Case Temperature)
Storage Temperature	-60°C to +185°C
Thermal Shock	-55°C → +165°C (5 Cycles / 10 hours)
*Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +70°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

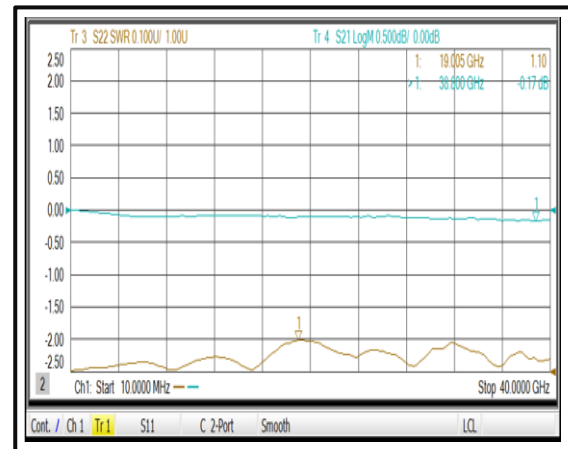
*For vibration testing details please see additional information section.

Typical Performance Plots

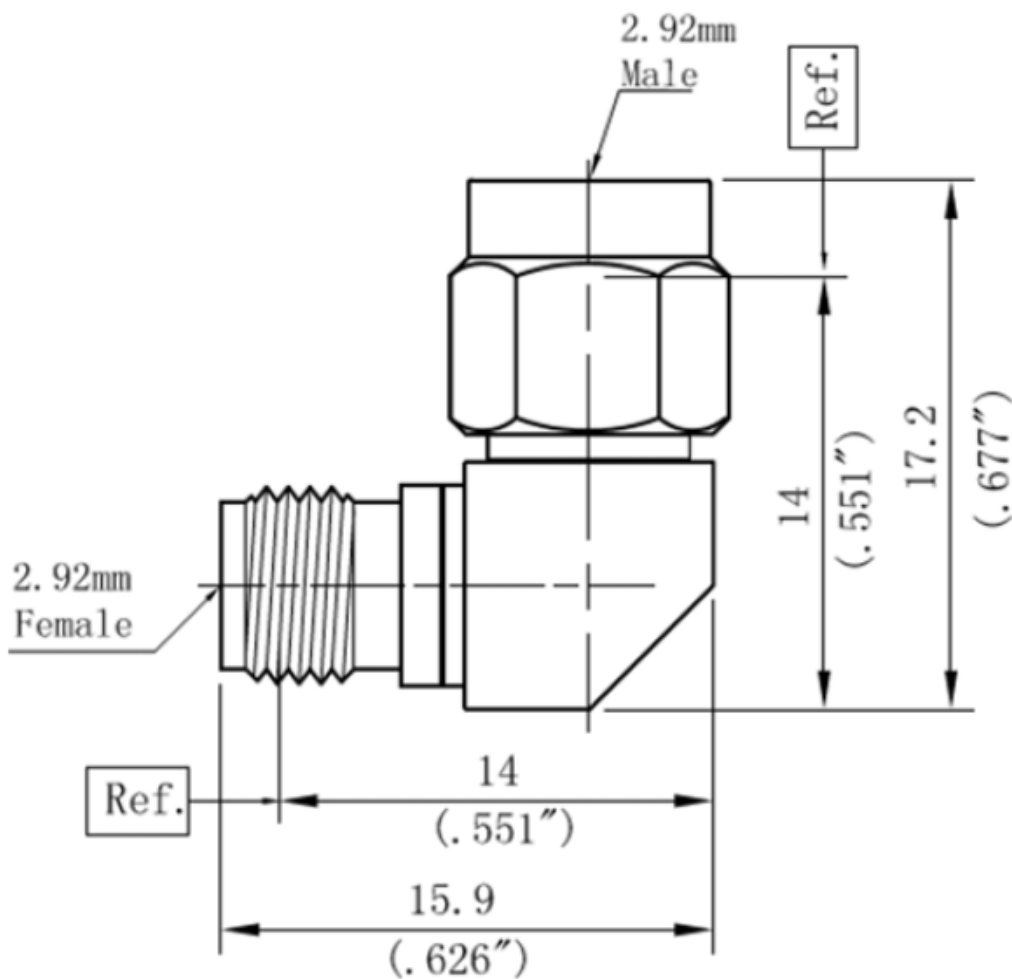
VSWR



VSWR



Outline Drawing



Notes:

1. Package Material: Stainless Steel. Center PIN: Beryllium Copper Gold Plated.
2. All dimensions are in millimeters [inches].
3. Standard torque wrench must be used to secure RF connectors.

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFCARAKMKFL	2.92mm-Male to 2.92mm-Female	DC-40GHz Coaxial Adapter

Important Notice

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