

2W Coaxial Termination DC-40GHz



Product Description

RFST2G40 is a termination with a frequency range of DC to 40GHz.

The average power of the termination is 2W. The max VSWR of 1.35:1.

The working temperature of this product is between - 55°C and + 85°C.

Features

- Wide frequency Band
- Low VSWR

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°C)

Parameter	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.35	: 1
Average Power		2		W
Peak Power (5μs pulse, 0.5% Duty Cycle)		0.2		KW
Weight		0.011		lbs.
Impedance		50		Ω
Connector Type	2.92mm-Male or 2.92mm-Female			
Package	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			

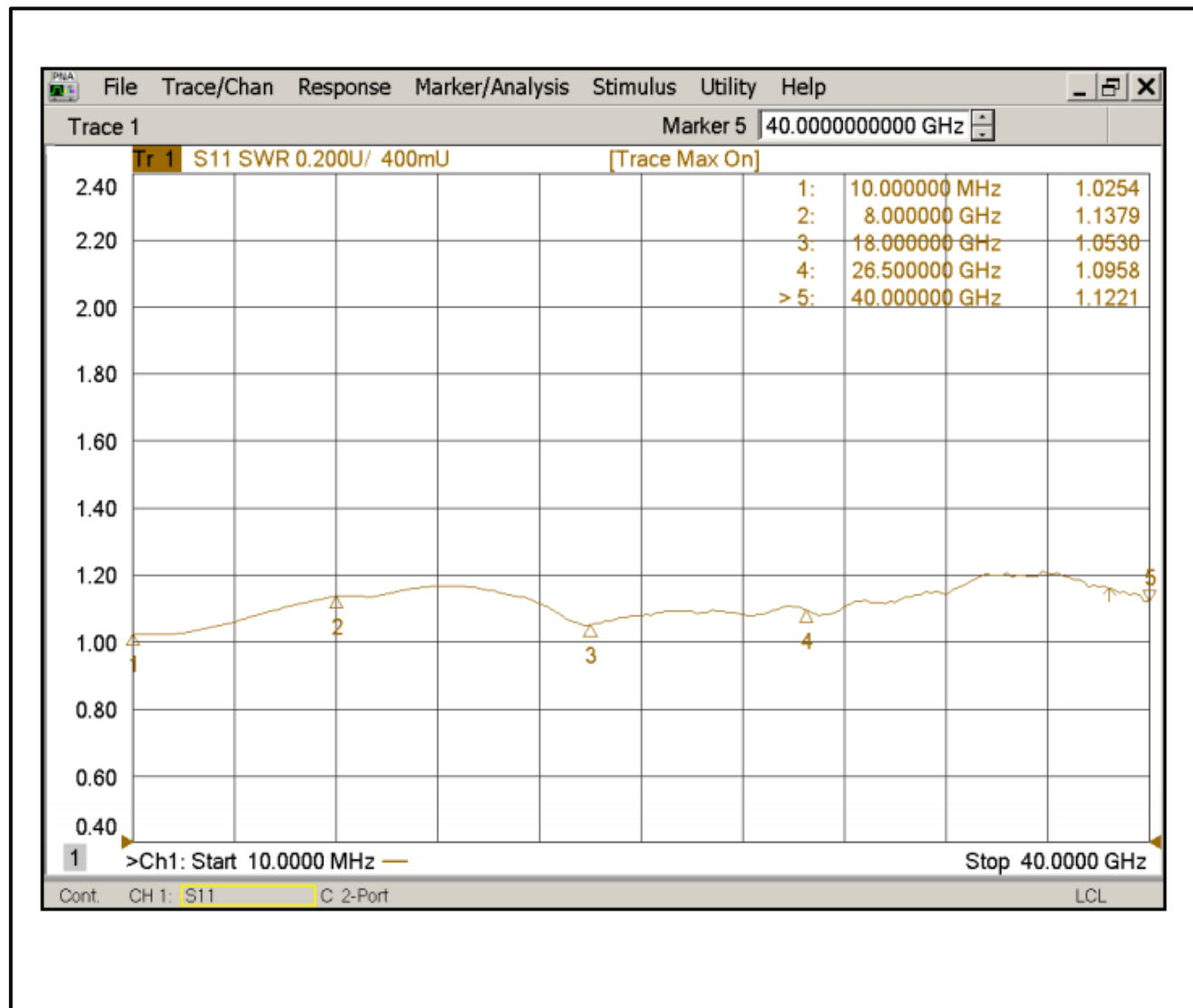
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-55°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +85°C
Thermal Shock	-40°C → +85°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 +85°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)

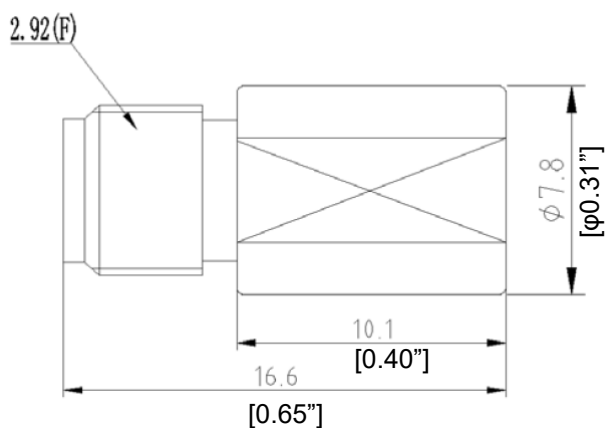
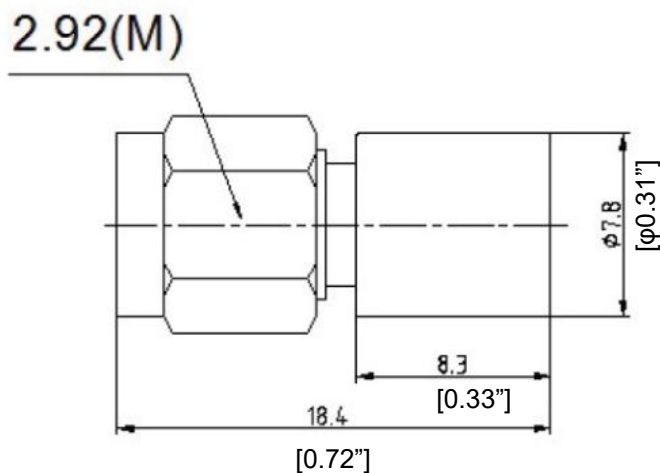
**For vibration testing details please see additional information section.

Typical Performance Plots

VSWR vs. Frequency



Outline Drawing



Notes:

1. Package Material: Stainless Steel
2. Male Pin: Brass Gold Plated; Female Pin: Beryllium Copper Gold Plated
3. All dimensions are in millimeters [inches].
4. Housing Tolerances ± 0.25 [0.01] unless otherwise specified.

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
RFST2G40	2.92mm-Male,2.92mm-Female	DC-40GHz Termination

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