

Coaxial 400W 0° 2-Way Power Divider 2.75GHz-3.75GHz



Product Description

RFLT2W275G375G is 2-Way power divider with a frequency range of 2.75 to 3.75GHz.

The forward power of this power divider is 400W. The insertion loss is 0.3dB with a typical isolation of 20dB.

The working temperature of this product is between - 40°C and + 85°C.

Features

- High power handling up to 400W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

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, TA = +25°C

Parameter		Min	Typ	Max	Units
Frequency Range		2.75		3.75	GHz
Nominal Splitter Loss			3		dB
Insertion Loss			0.3	0.5	dB
Isolation		20	21		dB
Input VSWR			1.2	1.3	:1
Output VSWR			1.15	1.25	:1
Amplitude Imbalance			±0.15	±0.2	dB
Phase Imbalance			±2	±3	deg
Power Rating	Forward Power		400		W
	Reverse Power		25		W
	Peak Power	(10% Duty Cycle, 1 us Pulse Width)			KW
Weight			0.4 Max.		lbs
Impedance			50		Ω
Input / Output Connectors		N-Female(Input) – N-Female(Output)			
Package	Epoxy Sealed (Standard)				
	Hermetically Sealed (Optional)				

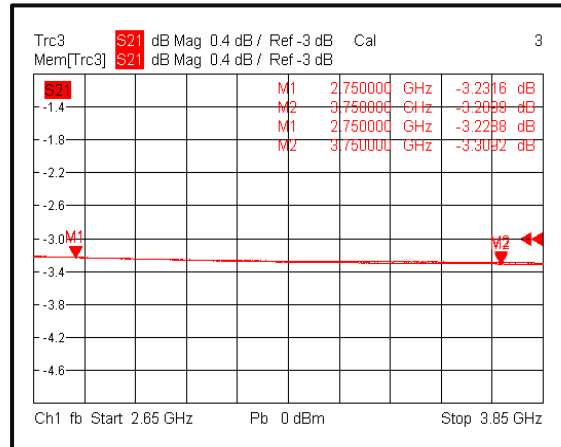
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°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
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)

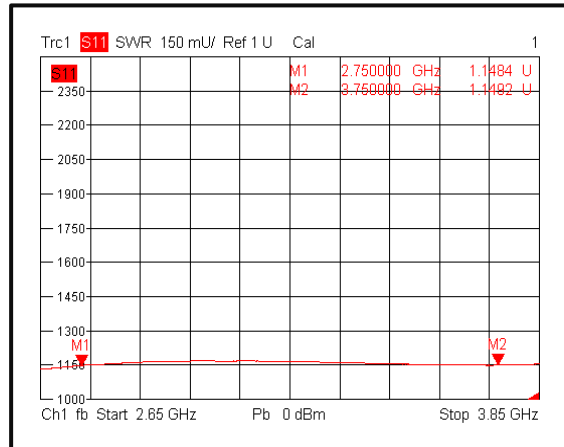
*For vibration testing details please see additional information section.

Typical Performance Plots

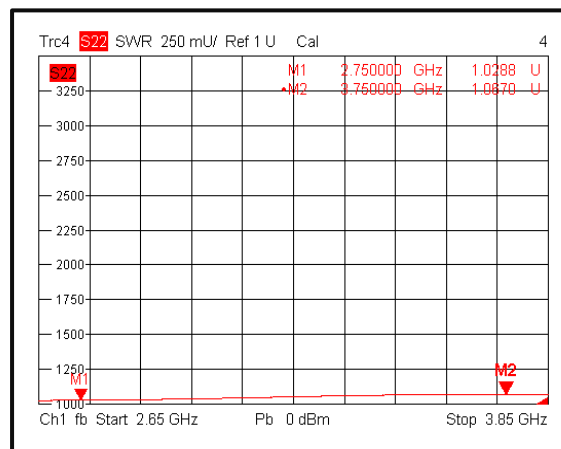
Loss & Amplitude Imbalance



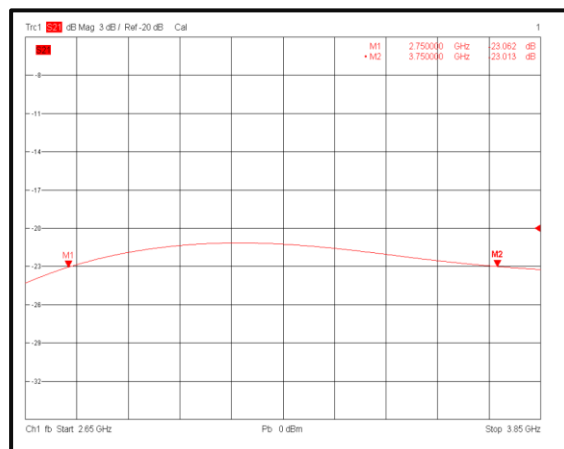
Input VSWR



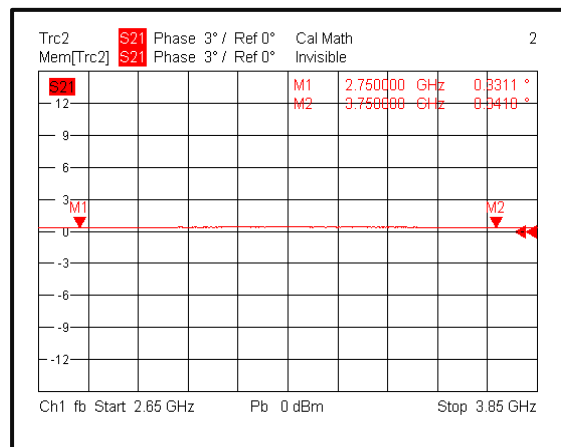
Output VSWR



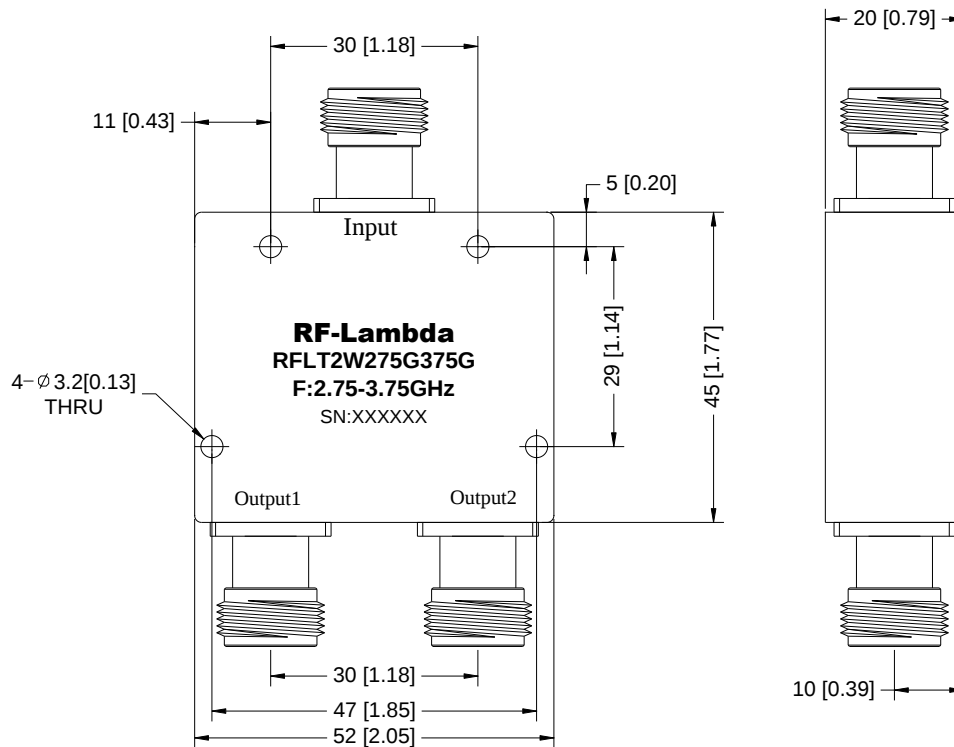
Isolation



Phase Imbalance

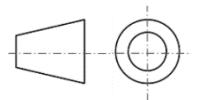


Outline Drawing



Notes:

1. Package Material: Aluminum
2. Finish: Nickel Plated
3. All dimensions are in millimeters [inches].
4. Outline Tolerances ± 0.5 [0.02], Mounting Hole Tolerances ± 0.2 [0.008] unless otherwise specified.
5. Standard torque wrench must be used to secure RF connectors.



Additional Information

Documentation

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

Webpage

Ordering Information

Part Number	Modification	Description
RFLT2W275G375G	Input Connector N-Female and Output Connector N-Female	2.75GHz-3.75GHz 2-Way Power Divider

Important Notice

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