Coaxial 10W 0º 2-Way Power Divider 0.005GHz-2GHz

Product Description

RFLT2W0002GN is 2-Way power divider with a frequency range of 0.005 to 2GHz.

The forward power of this power divider is 10W. The insertion loss is 0.5dB with a typical isolation of 16dB.

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

Features

- High power handling up to 10W
- 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	Min	Typ	Max	Units
Frequency Range		0.005		0.1	0.1		2	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.5	0.6		0.7	0.8	dB
Isolation		12	16		17	18		dB
Input VSWR			1.9	2.0		1.8	2.0	: 1
Output VSWR			1.7	1.8		1.6	1.7	: 1
Amplitude Imbalance			0.1	0.15		0.15	0.2	dB
Phase Imbalance			1	2		2	3	deg
Power Rating	Forward Power	10						W
	Reverse Power	0.5						W
	Peak Power	100 (10% Duty Cycle, 1 us Pulse Width)						W
Weight		0.1 Max.						lbs
Impedance		50						Ω
Input / Output Connectors		N-Female(Input) – N-Female(Output)						
Package		Epoxy Sealed (Standard)						
		Hermetically Sealed (Optional)						

RF-LAMBDA USA LLC: www.rflambda.com
Sales: sales@rflambda.com Technical: support@rflambda.com

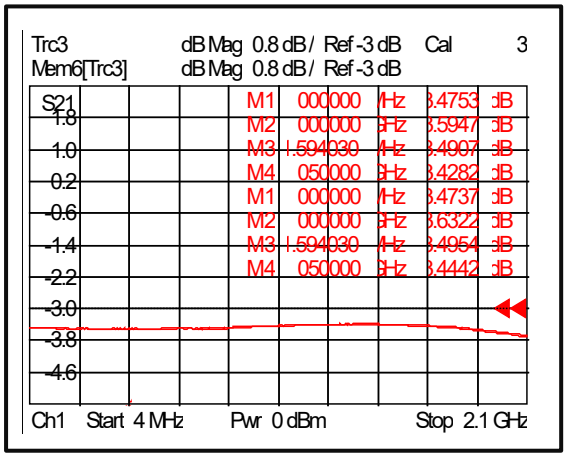
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40ºC to +85ºC (Case Temperature)
Storage Temperature	-50ºC to +105ºC
Thermal Shock	-40ºC → +85ºC (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)

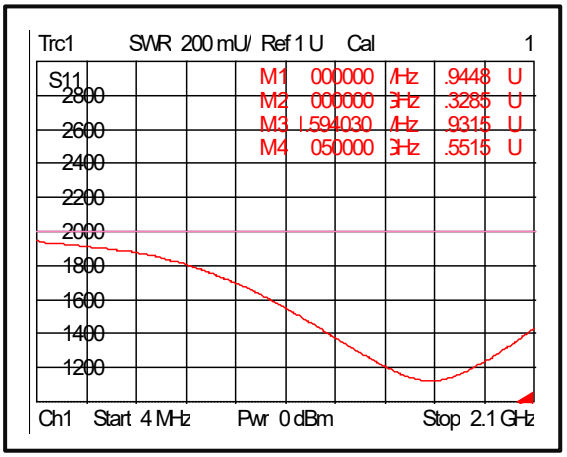
*For vibration testing details please see additional information section.

Typical Performance Plots

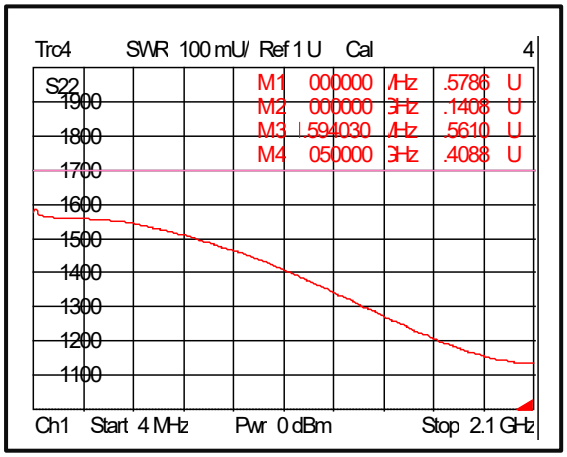
Loss & Amplitude Imbalance



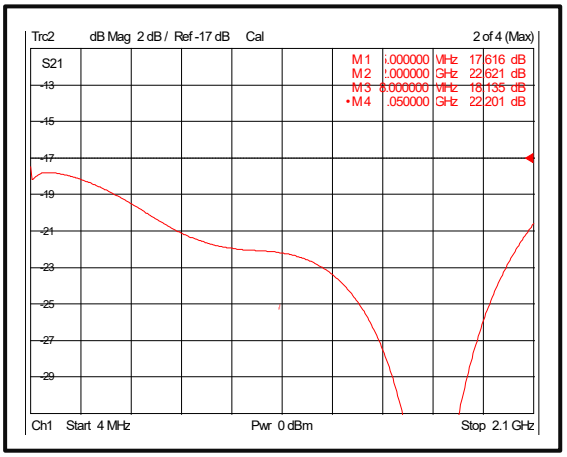
Input VSWR



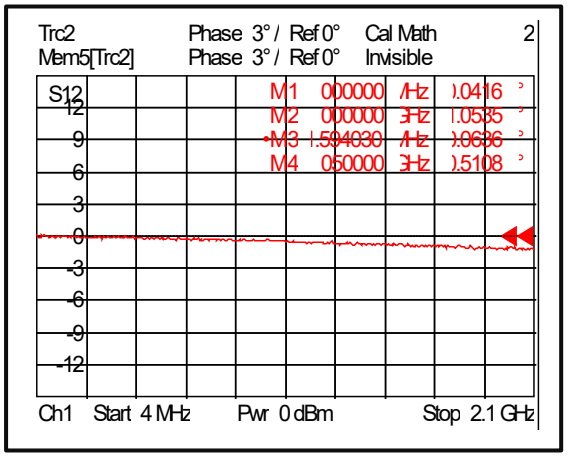
Output VSWR



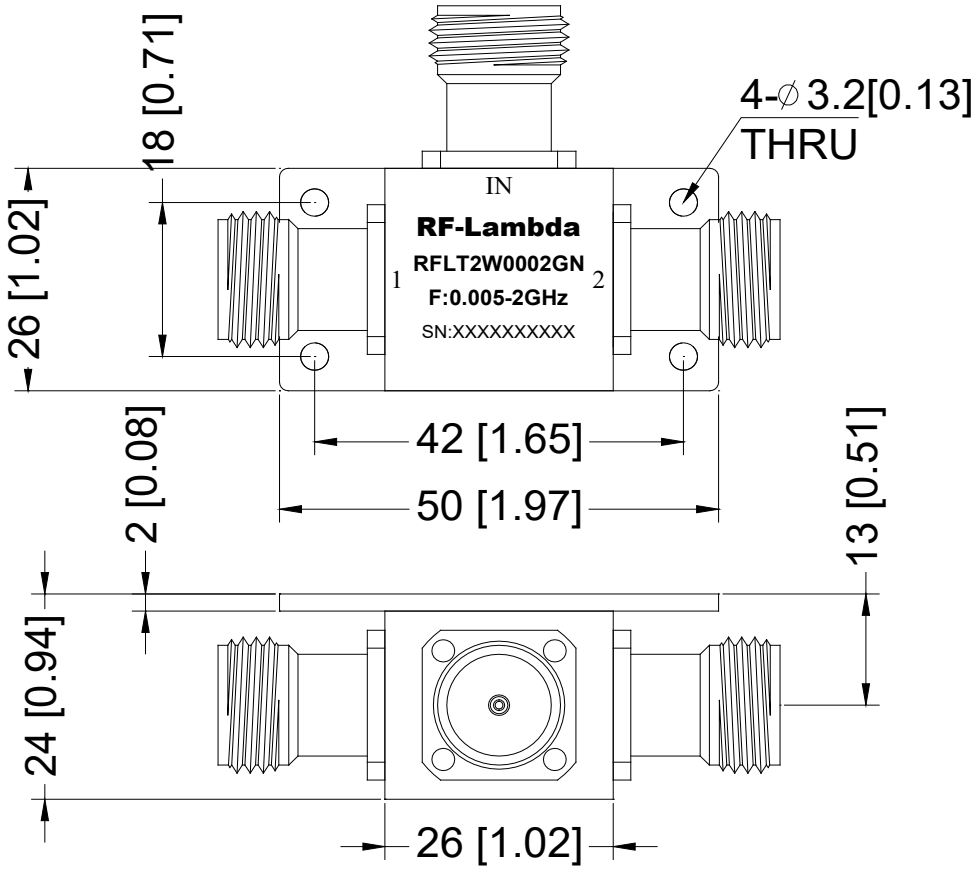
Isolation

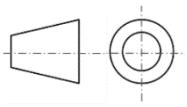


Phase Imbalance



Outline Drawing





Notes:
1. Package Material: Aluminum
2. Finish: Blue Painted
3. All dimensions are in millimeters [inches].
4. Outline Tolerances ±0.5 [0.02], Mounting Hole Tolerances ±0.2 [0.008] unless otherwise specified.

Additional Information

Documentation	Webpage
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
RFLT2W0002GN	Input connector N-Female and Output connector N-Female	0.005-2GHz 2-Way Power Divider

Important Notice

RF-LAMBDA USA LLC: www.rflambda.com
Sales: sales@rflambda.com Technical: support@rflambda.com