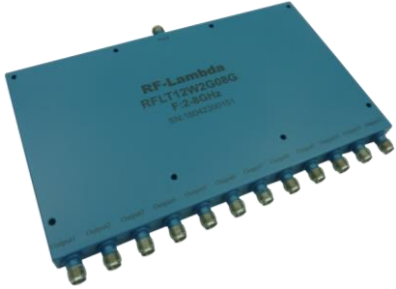


Coaxial 30W 0° 12-Way Power Divider 2GHz-8GHz



Product Description

RFLT12W2G08G is a 12-Way power divider with a frequency range of 2 to 8GHz.

The forward power of this power divider is 30W. The insertion loss is 1.8dB with a typical isolation of 20dB.

The working temperature of this product is between - 40°C and + 60°C.

Features

- High power handling up to 30W
- 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	2		4	4		8	GHz
Nominal Splitter Loss		10.8			10.8		dB
Insertion Loss		1.2	1.5		1.8	2.2	dB
Isolation	18	20		18	20		dB
Input VSWR		1.6	1.8		1.5	1.7	: 1
Output VSWR		1.3	1.5		1.3	1.5	: 1
Amplitude Imbalance		±0.4	±0.6		±0.5	±0.8	dB
Phase Imbalance		±6	±8		±8	±10	deg
Power Rating	Forward Power			30			W
	Reverse Power			1			W
	Peak Power			300 (10% Duty Cycle, 1 us Pulse Width)			W
Weight			0.69 Max.				lbs
Impedance			50				Ω
Input / Output Connectors	SMA-Female(Input) –SMA-Female(Output)						
Package	Epoxy Sealed (Standard)						
	Hermetically Sealed (Optional)						

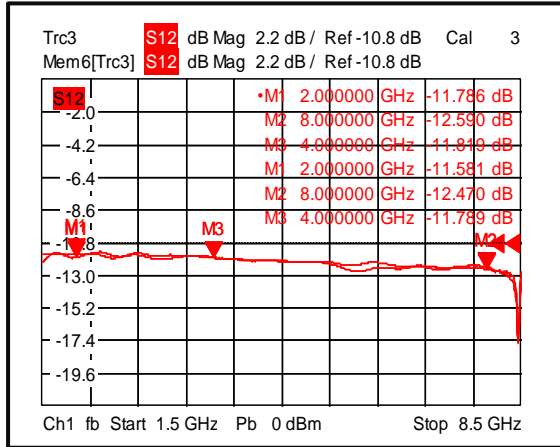
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +60°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)

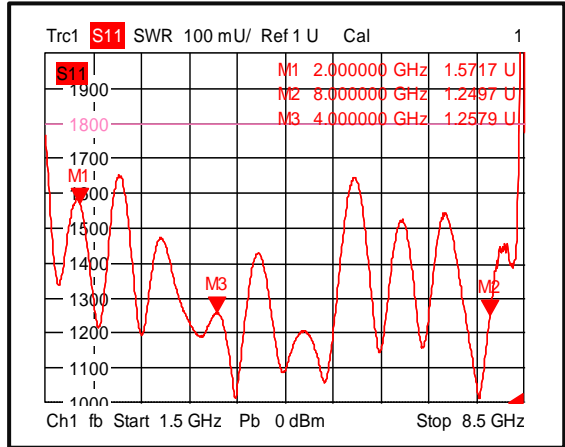
*For vibration testing details please see additional information section.

Typical Performance Plots

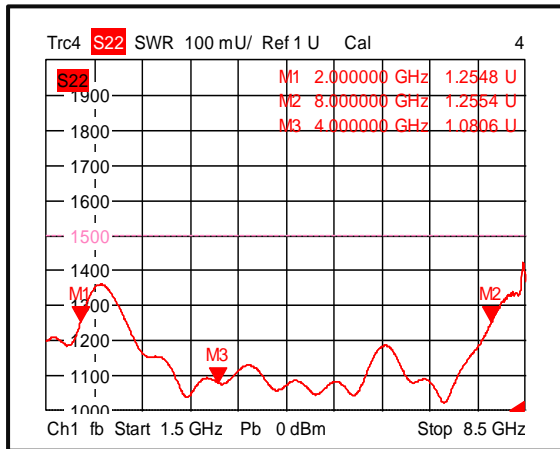
Loss & Amplitude Imbalance



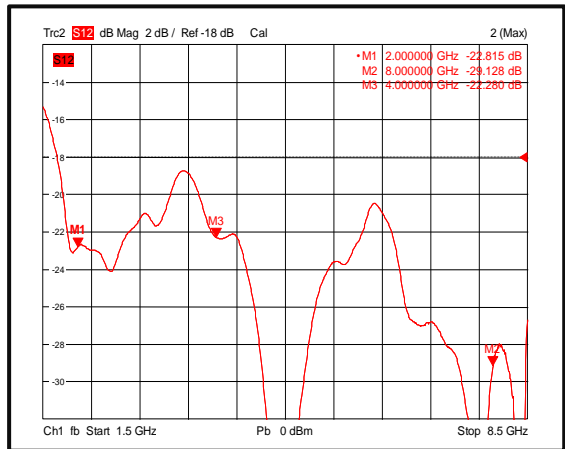
Input VSWR



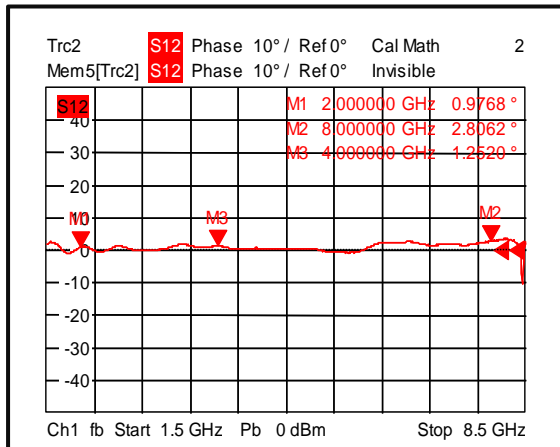
Output VSWR



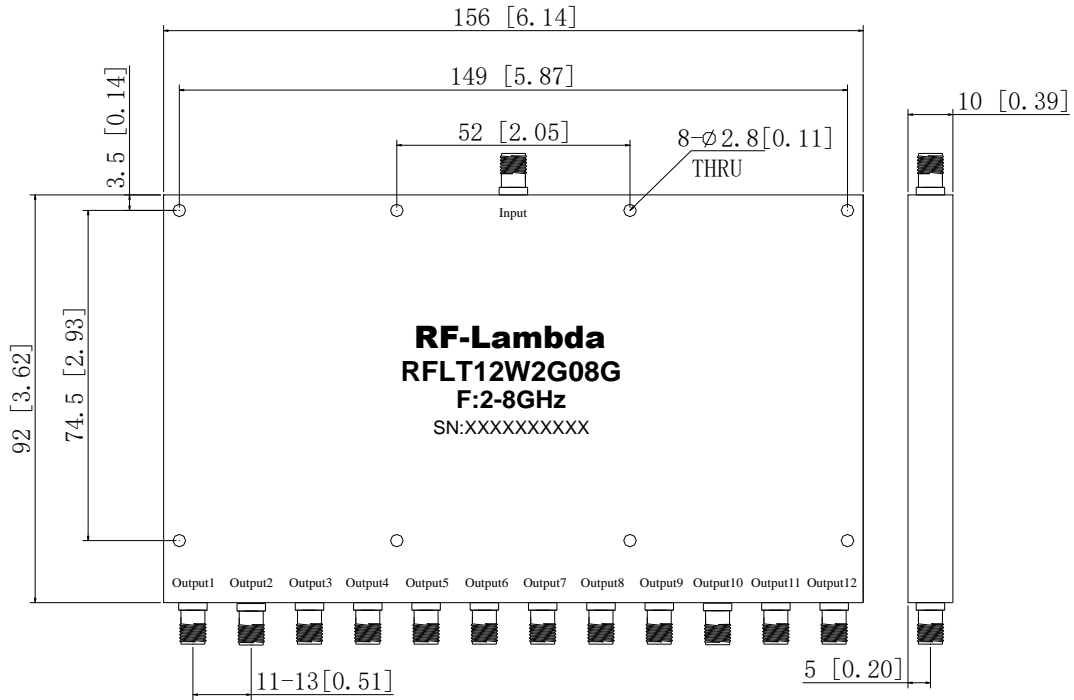
Isolation



Phase Imbalance

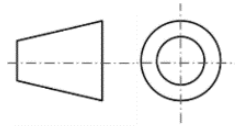


Outline Drawing



Notes:

1. Package Material: Aluminum
2. Finish: Blue Paint
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	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
RFLT12W2G08G	Standard	2GHz-8GHz 12-Way Power Divider

Important Notice

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