

Coaxial 50W 0° 4-Way Power Divider 2GHz-4GHz



Features

- High power handling up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Product Description

RFLT4W2G04G50W is 4-Way power divider with a frequency range of 2 to 4GHz.

The maximum forward power of this power divider is 50W. The insertion loss is 0.5dB with a typical isolation of 21dB.

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

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		4	GHz
Nominal Splitter Loss			6		dB
Insertion Loss			0.5	0.7	dB
Isolation		20	21		dB
Input VSWR			1.3	1.35	: 1
Output VSWR			1.2	1.25	: 1
Amplitude Imbalance			±0.2	±0.3	dB
Phase Imbalance			±2	±3	deg
Power Rating	Forward Power		50		W
	Reverse Power		3		W
	Peak Power		500 (10% Duty Cycle, 1 us Pulse Width)		W
Weight			0.2 Max.		lbs
Impedance			50		Ω
Input / Output Connectors		SMA-Female(Input) – SMA-Female(Output)			
Package		Epoxy Sealed (Standard)			
		Hermetically Sealed (Optional)			

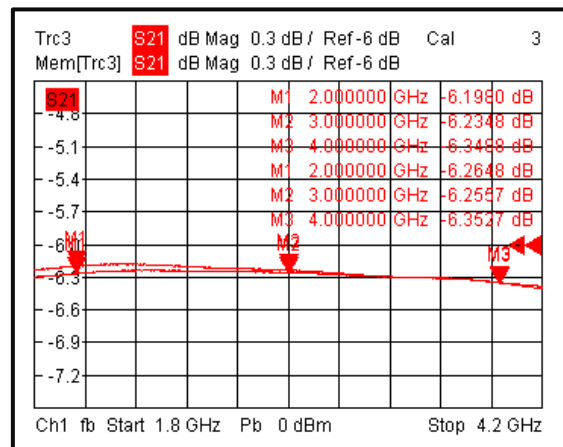
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +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)

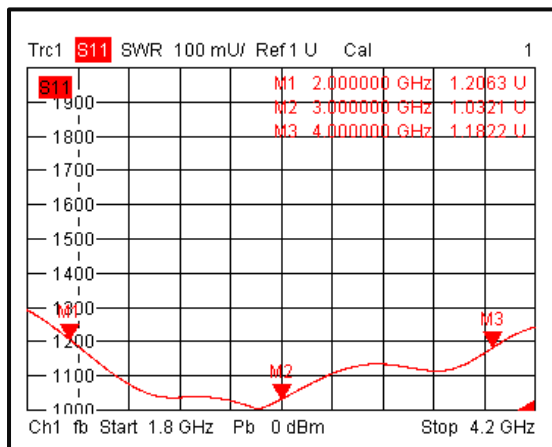
**For vibration testing details please see additional information section.

Typical Performance Plots

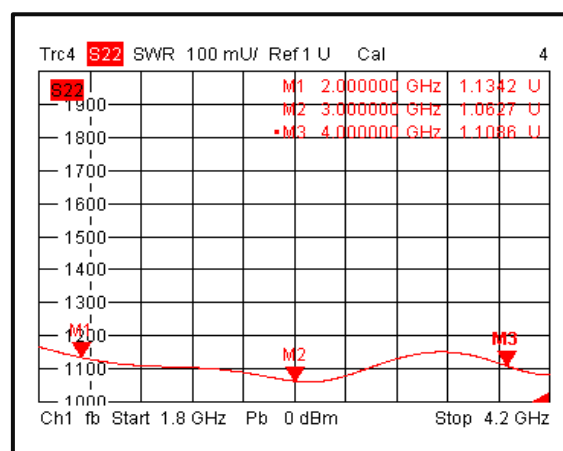
Loss & Amplitude Imbalance



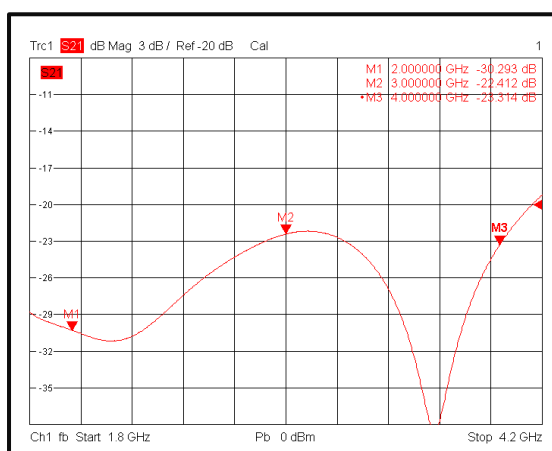
Input VSWR



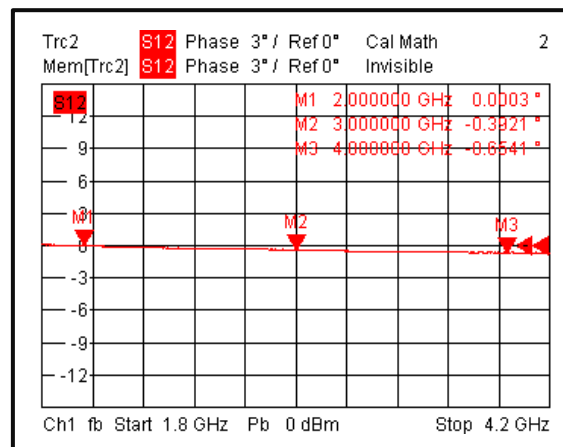
Output VSWR



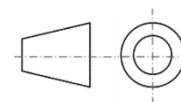
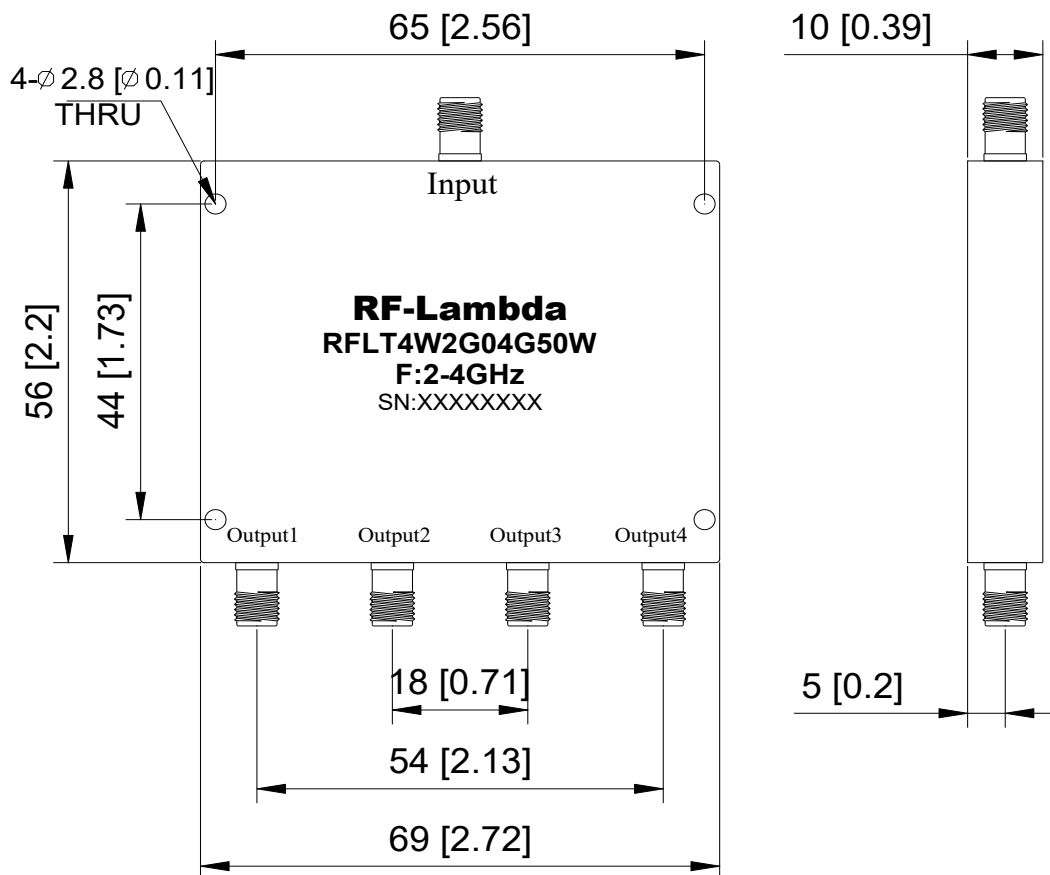
Isolation



Phase Imbalance



Outline Drawing



Notes:

1. Package Material: Aluminum
2. Finish: 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.

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
RFLT4W2G04G50W	Standard	2GHz-4GHz 4-Way Power Divider

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