

Coaxial 200W 0° 8-Way Power Divider 60MHz-140MHz



Product Description

RFLT8W60M140M is 8-Way power divider with a frequency range of 60 to 140MHz.

The forward power of this power divider is 200W. The insertion loss is 0.9dB with a typical isolation of 18dB.

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

Features

- High power handling up to 200W
- 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		60		140	MHz
Nominal Splitter Loss			9		dB
Insertion Loss			0.6	0.9	dB
Isolation		18	20		dB
Input VSWR			1.3	1.5	: 1
Output VSWR			1.2	1.3	: 1
Amplitude Imbalance			±0.2	±0.3	dB
Phase Imbalance			±3	±5	deg
Power Rating	Forward Power		200		W
	Reverse Power		5		W
	Peak Power	2 (10% Duty Cycle, 1 us Pulse Width)			kW
Weight			9.7 Max		lbs
Impedance			50		Ω
Input / Output Connectors		SMA-Female(Input) – SMA-Female(Output)			
Package	Epoxy Sealed (Standard)				
	Hermetically Sealed (Optional)				

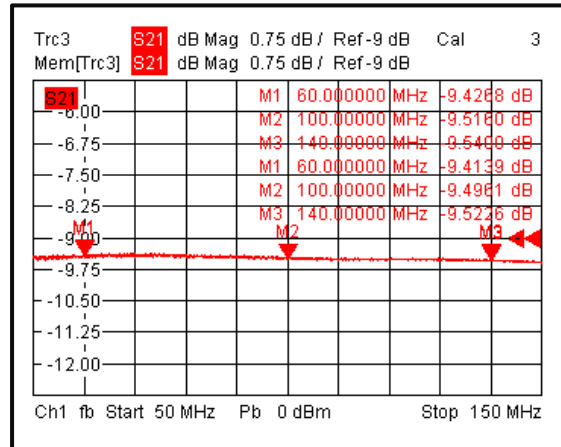
Environmental Specifications and Test Standards

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)

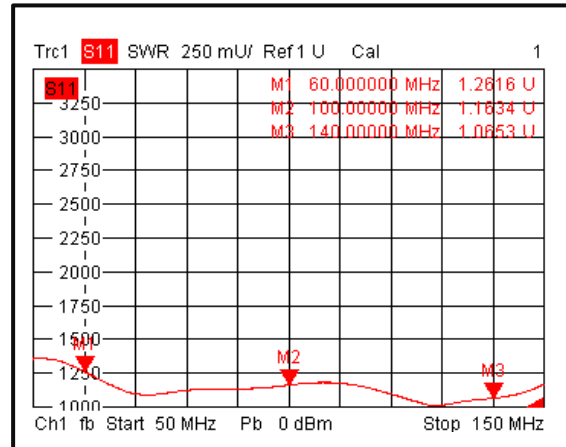
*For vibration testing details please see additional information section.

Typical Performance Plots

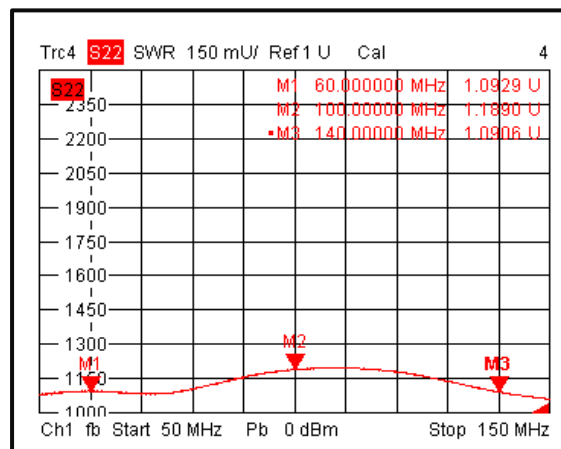
Loss & Amplitude Imbalance



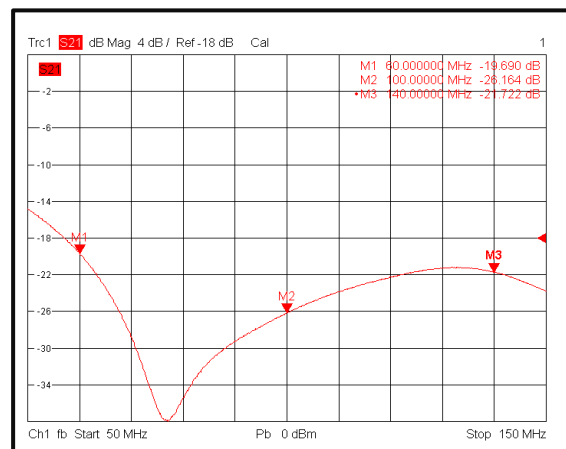
Input VSWR



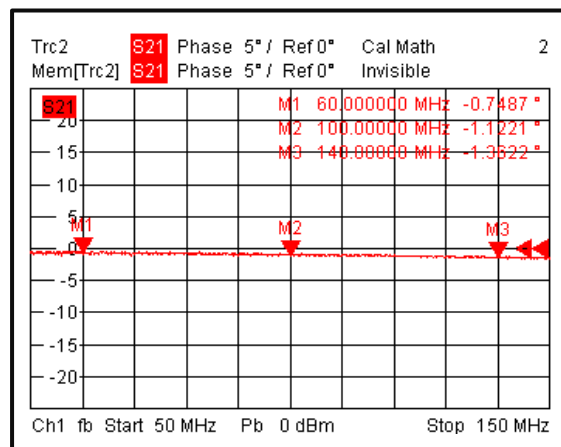
Output VSWR



Isolation



Phase Imbalance



RF-Lambda
RFLT8W60M140M
F:60-140MHz
 SN:XXXXXXXXXX

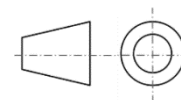
Input

Output1 Output2 Output3 Output4
 Output5 Output6 Output7 Output8

THRU

Dimensions (mm): 275.0 [10.83], 260.0 [10.24], 254.0 [10.01], 269.0 [10.60], 62.0 [2.44], 186.0 [7.33], 7.0 [0.28], 7.0 [0.28], 15.0 [0.59], 8.5 [0.33], 4.0 [0.16], 6-ø3.2 [0.13]

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.



Webpage

https://www.rflambda.com/pdf/Torque_Specifications.pdf

https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFLT8W60M140M	Standard	60-140MHz 8-Way Power Divider

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