

Coaxial 30W 0° 8-Way Power Divider 6GHz-18GHz



Features

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Product Description

RFLT8W6G18G is 8-Way power divider with a frequency range of 6 to 18GHz.

The Forward Power of this power divider is 30W. The Insertion Loss is 1.5dB with a typical isolation of 20dB.

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

High power handling up to 30W

High isolation within operational band

Wide band operation

Low Insertion Loss

Parameter		Min	Тур	Max	Units
Frequency Range		6		18	GHz
Nominal Splitter Loss			9		dB
Insertion Loss			1.0	1.5	dB
Isolation		18	20		dB
Input VSWR			1.5	1.7	: 1
Output VSWR			1.35	1.5	: 1
Amplitude Imbalance			±0.4	±0.5	dB
Phase Imbalance			±6	±8	deg
Power Rating	Forward Power		30		W
	Reverse Power		1		W
	Peak Power	300 (10% Duty Cycle, 1 us Pulse Width)		W	
Weight		0.38 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

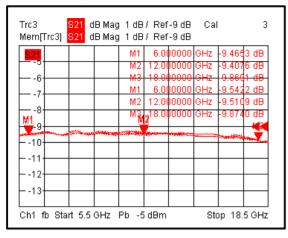
Parameter	Description		
Operational Temperature	-40°C to +85°C (Case Temperature)		
Storage Temperature	-50°C to +105°C		
Thermal Shock	-40ºC → +85ºC (5 Cycles / 10 hours)		
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis		
High Temperature Burn In	Temperature +85°C for 72 Hours		
Shock	 Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 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)		



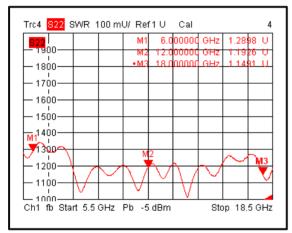
RFLT8W6G18G

Typical Performance Plots

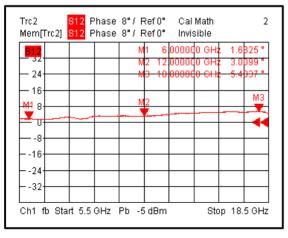
Loss & Amplitude Imbalance



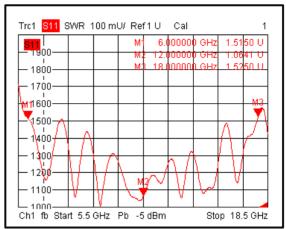
Output VSWR



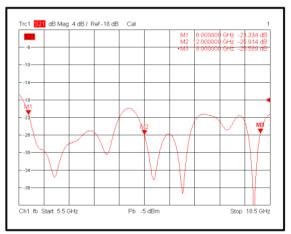
Phase Imbalance



Input VSWR



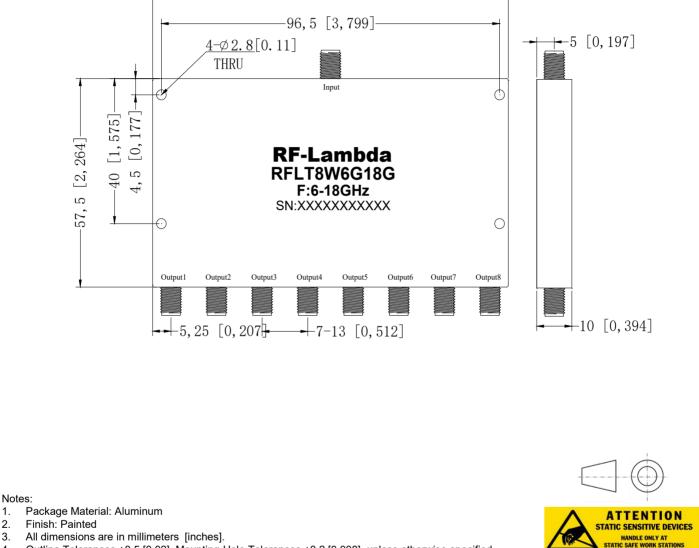
Isolation





RF-LAMBD

Outline Drawing



-101, 5 [3, 996]

1.

- 2.
- 3.

4. Outline Tolerances ±0.5 [0.02], Mounting Hole Tolerances ±0.2 [0.008] unless otherwise specified.

Additional Information

Webpage 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

RFLT8W6G18G



Ordering Information

Part Number	Modification	Description
RFLT8W6G18G	Standard	6-18GHz 8-Way Power Divider

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