

Hermetically Sealed Coaxial 20W 0° 2-Way Power Divider 0.5GHz-18GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- High power handling up to 20W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Product Description

RFLT2W5M18GB-H is a hermetically sealed 2-Way power divider with a frequency range of 0.5 to 18GHz.

The forward power of this power divider is 20W. The insertion loss is 1.0dB with a typical isolation of 17dB.

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

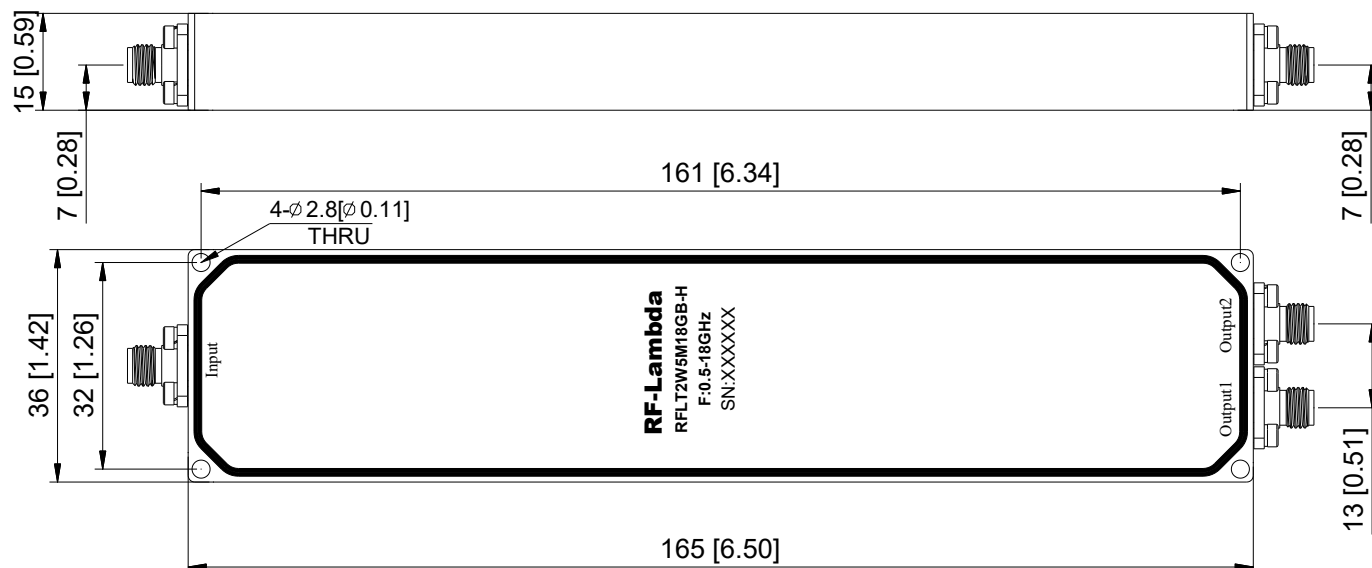
Parameter	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	0.5		1	1		8	8		18	GHz
Nominal Splitter Loss		3			3			3		dB
Insertion Loss		0.3	0.5		0.6	0.8		1.0	1.2	dB
Isolation	16	17		18	20		16	18		dB
Input VSWR		1.45	1.6		1.3	1.4		1.3	1.4	: 1
Output VSWR		1.3	1.4		1.3	1.4		1.3	1.4	: 1
Amplitude Imbalance		0.1	0.2		0.15	0.2		0.2	0.3	dB
Phase Imbalance		1	2		2	3		3	5	deg
Forward Power					20					W
Reverse Power					1					W
Peak Power					200					W
					(10% Duty Cycle, 1 us Pulse Width)					
Weight					Max.					lbs
Impedance					50					Ω
Input / Output Connectors					SMA-Female(Input) – SMA-Female(Output)					
Package					Hermetically Sealed (Laser Welded)					

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)

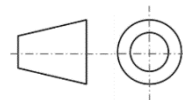
*For vibration testing details please see additional information section.

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

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
RFLT2W5M18GB-H	Standard	0.5GHz-18GHz Hermetically Sealed 2-Way Power Divider

Important Notice

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