

Hermetically Sealed Coaxial 2-Way Power Divider DC-26.5GHz



Features

- High power handling up to 1W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Product Description

RFLT2WDC27GA-H is a hermetically sealed coaxial 2-Way power divider with a frequency range of DC to 26.5GHz.

The forward power of this power divider is 1W. The insertion loss is 7.2dB with a typical isolation of 12dB.

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	Тур	Max	Units
Frequency Range		DC		26.5	GHz
Insertion Loss			7.2	7.8	dB
Isolation			12		dB
Input VSWR			1.3	1.5	: 1
Output VSWR			2.0	2.5	: 1
Amplitude Imbalance			0.2	0.3	dB
Phase Imbalance			3	4	deg
	Forward Power		1		W
Power Rating	Peak Power	(10% D	10 uty Cycle, 1us Pulse	e Width)	W
Weight		0.035 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	 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)		

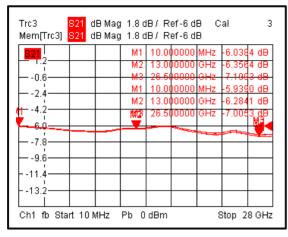
*For vibration testing details please see additional information section.



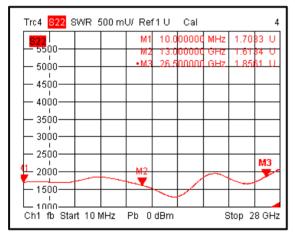
RFLT2WDC27GA-H

Typical Performance Plots

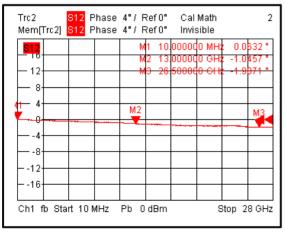
Loss & Amplitude Imbalance



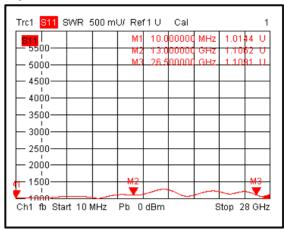
Output VSWR



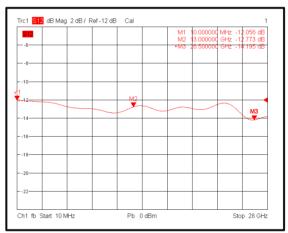
Phase Imbalance



Input VSWR



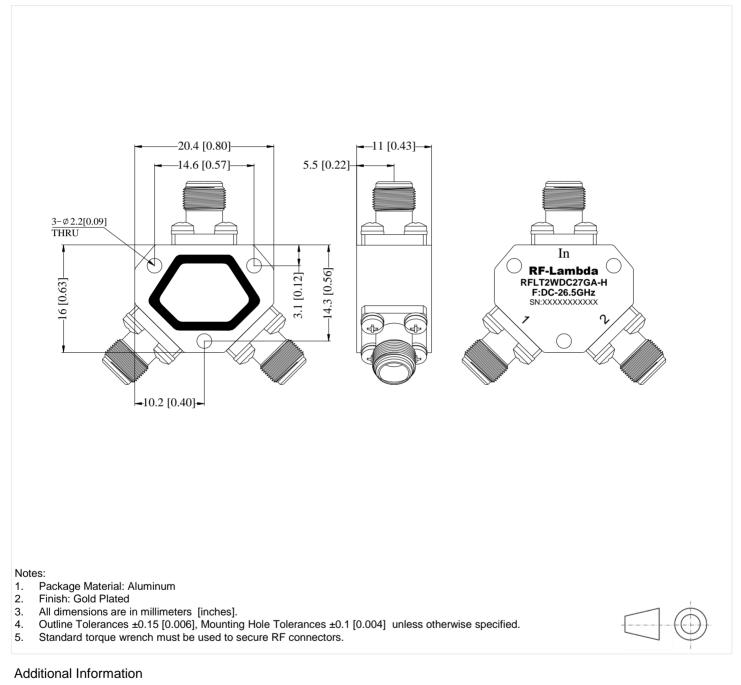
Isolation







Outline Drawing



 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



RFLT2WDC27GA-H

Ordering Information

Part Number	Modification	Description
RFLT2WDC27GA	Standard	DC-26.5GHz 2-Way Power Divider
RFLT2WDC27GA-H	Hermetically Sealed (Laser Welded)	DC-26.5GHz 2-Way Power Divider

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