

Hermetically Sealed Coaxial 2-Way Power Divider DC-26.5GHz (Chromate Class 3 finish)



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

Features

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

Product Description

RFLT2WDC27GB-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

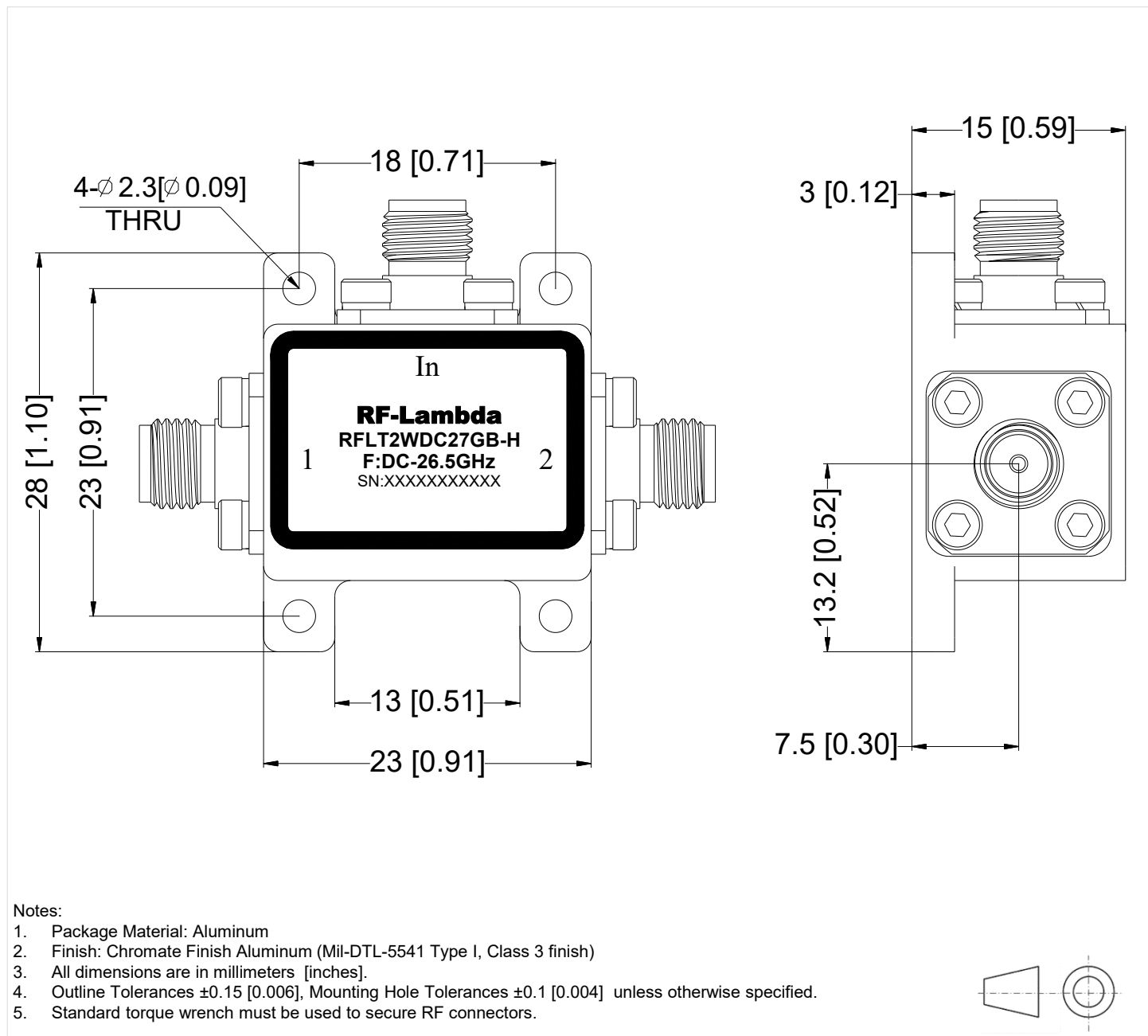
Parameter		Min	Typ	Max	Units
Frequency Range		DC		26.5	GHz
Insertion Loss			7.2	7.6	dB
Isolation			12		dB
Input VSWR			1.3	1.5	: 1
Output VSWR			2.0	2.5	: 1
Amplitude Imbalance			0.2	0.3	dB
Phase Imbalance			3	4	deg
Power Rating	Forward Power		1		W
	Peak Power		10 (10% Duty Cycle, 1us Pulse Width)		W
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



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
RFLT2WDC27GB	Standard	DC-26.5GHz 2-Way Power Divider
RFLT2WDC27GB-H	Hermetically Sealed (Laser Welded)	DC-26.5GHz 2-Way Power Divider

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