

Coaxial 1W 0° 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

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless Infrastructure

Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

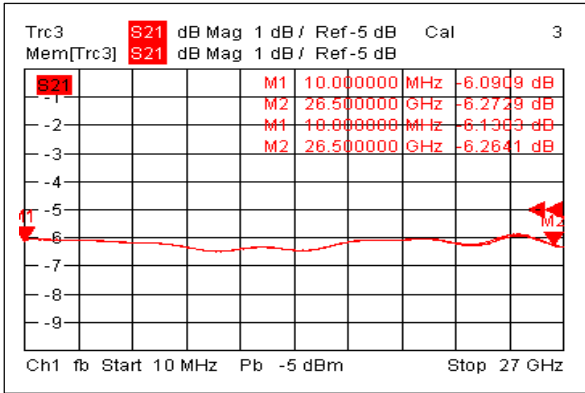
Parameters		Min.	Typ.	Max.	Units
Frequency Range		DC		26.5	GHz
Insertion Loss			7.2	7.5	dB
Isolation			12		dB
Input VSWR			1.3	1.5	: 1
Output VSWR			2.0	2.5	: 1
Amplitude Imbalance			0.2	0.3	dB
Phase Imbalance			3	4	deg
Power Rating	Forward Power	1			W
	Peak Power	10			W
Impedance		50			Ohms
Weight		0.5 Max.			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Gold Plated			

Environmental Specifications and Test Standards

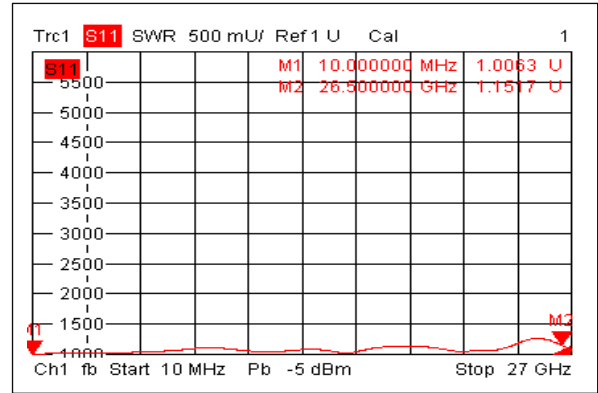
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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)

Typical Performance Plots

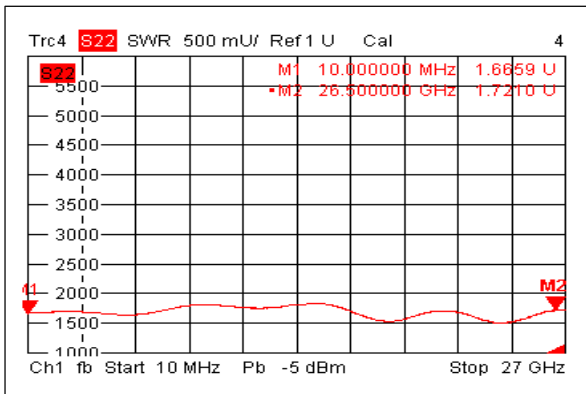
Loss & Amplitude Imbalance



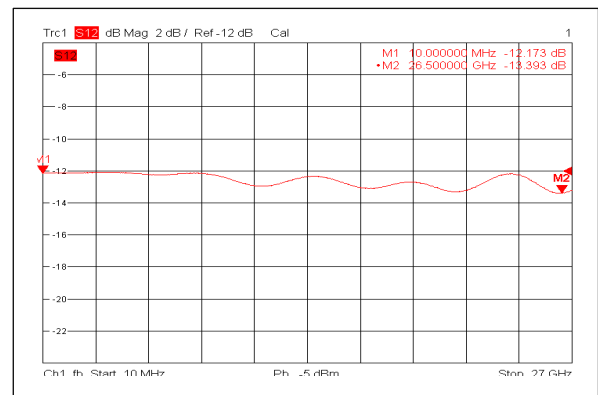
Input VSWR



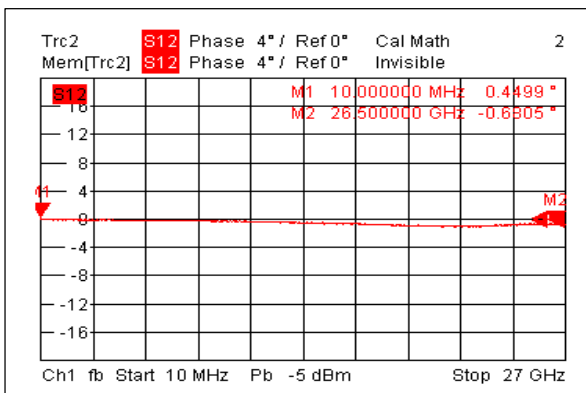
Output VSWR



Isolation



Phase Imbalance

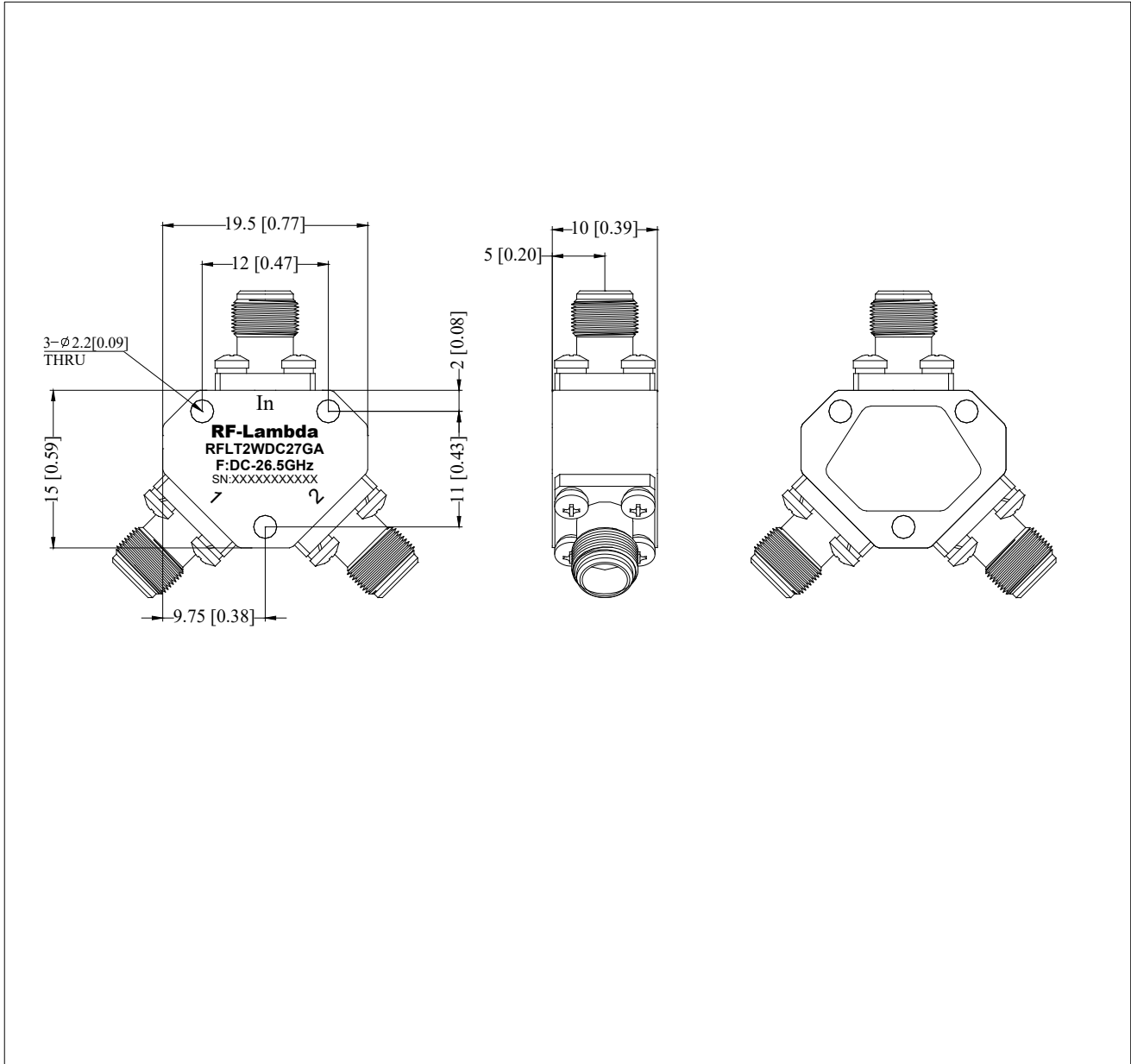


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Outline Drawing:

All Dimensions in mm [inches]

Tolerances ± 0.15 [0.006]



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