



### Coaxial 30W 0° 4-Way Power Divider 1-2GHz



**Features**

- High power handling up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- High peak to average handling capability

**Typical Applications**

- Aerospace and military applications
- LMDS multi-carrier operation

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		1		2	GHz
Nominal Splitter Loss			6		dB
Insertion Loss			0.35	0.6	dB
Isolation		20	21.5		dB
Input VSWR			1.2	1.25	:1
Output VSWR			1.15	1.2	:1
Amplitude Imbalance			±0.2	±0.3	dB
Phase Imbalance			±2	±3	deg
Power Rating	Forward Power	30			W
	Reverse Power	2			W
	Peak Power	300			W
Impedance		50			Ohms
Weight		1.76			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

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*Environmental Specifications and Test Standards*

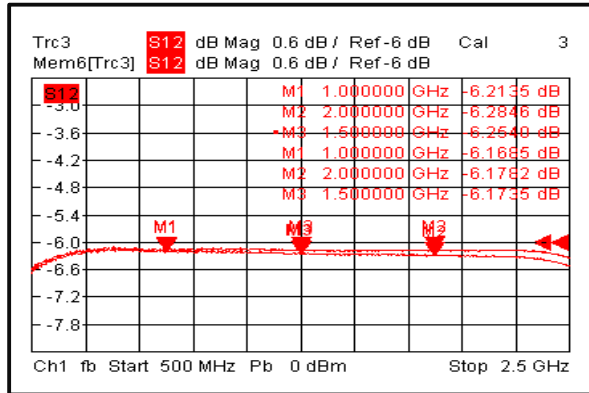
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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	MIL-STD-883 (For Hermetically Sealed Units)

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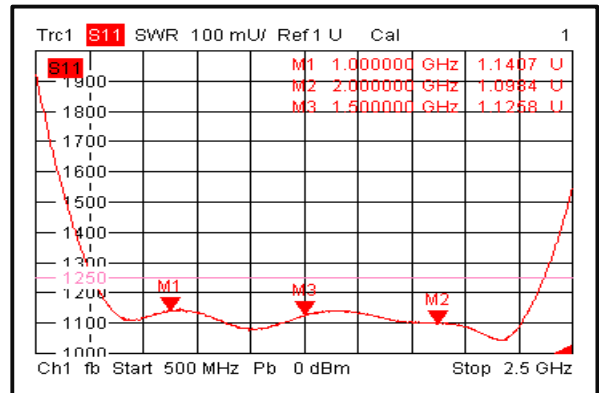


**Typical Performance Plots**

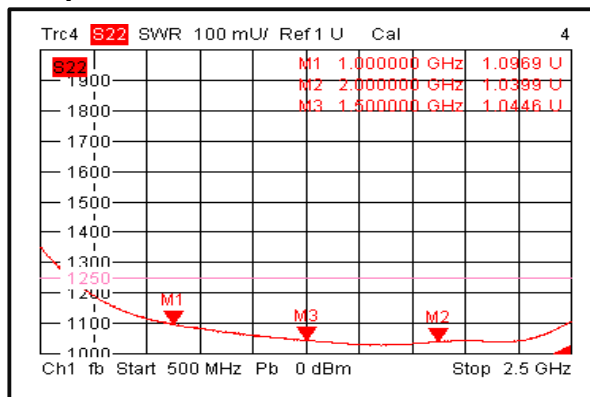
**Loss & Amplitude Imbalance**



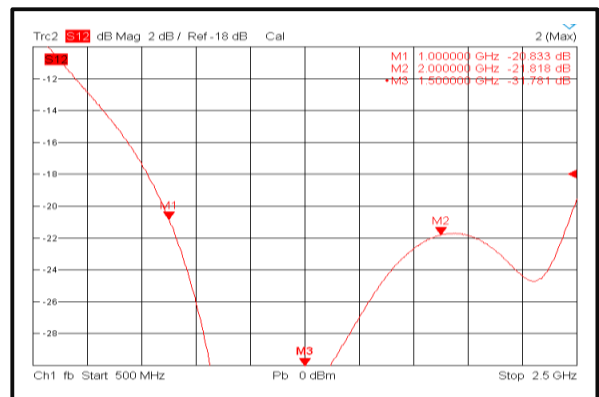
**Input VSWR**



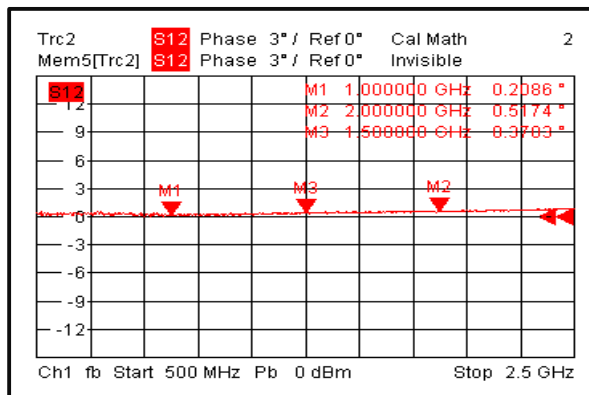
**Output VSWR**



**Isolation**



**Phase Imbalance**



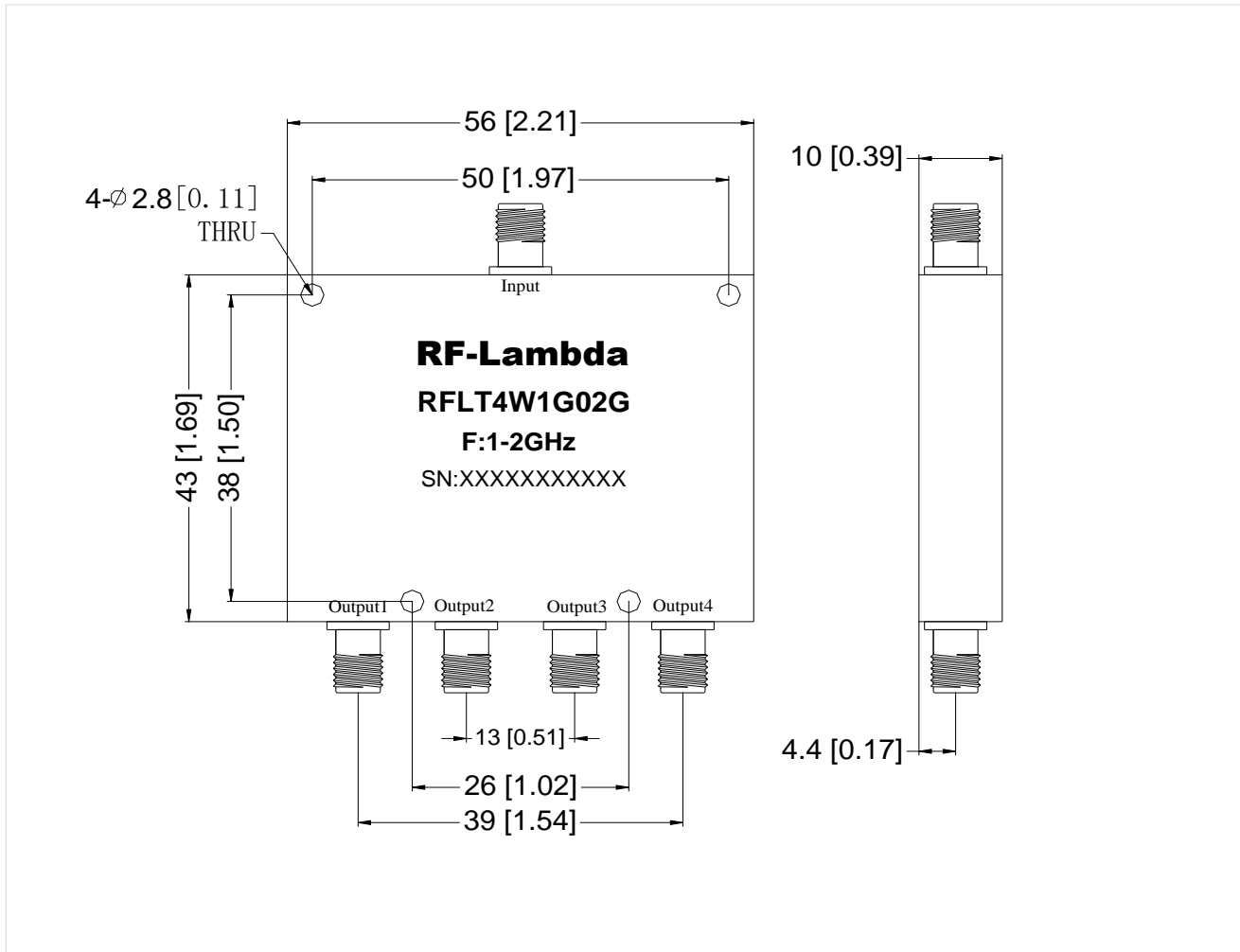
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### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.2$  [0.008]



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