



### Coaxial 30W 0° 2-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			3		dB
Insertion Loss				0.3	dB
Isolation		22			dB
Input VSWR			1.15	1.2	:1
Output VSWR			1.1	1.15	:1
Amplitude Imbalance			0.15	0.3	dB
Phase Imbalance				2.0	deg
Power Rating	Forward Power	30			W
	Reverse Power	2			W
	Peak Power	300			W
Impedance		50			Ohms
Weight		0.71			ounces
Input / Output Connectors		SMA - Female			
Material		Aluminum			
Finish		Blue Paint			

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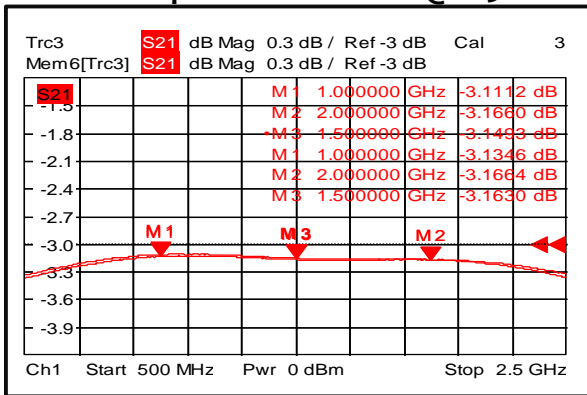
**Environmental Specifications and Test Standards**

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)

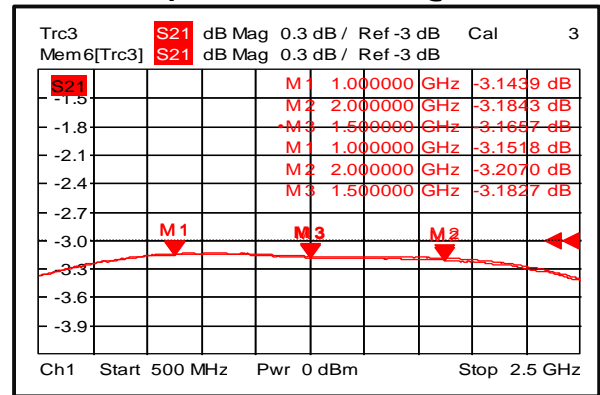


Typical Performance Plots

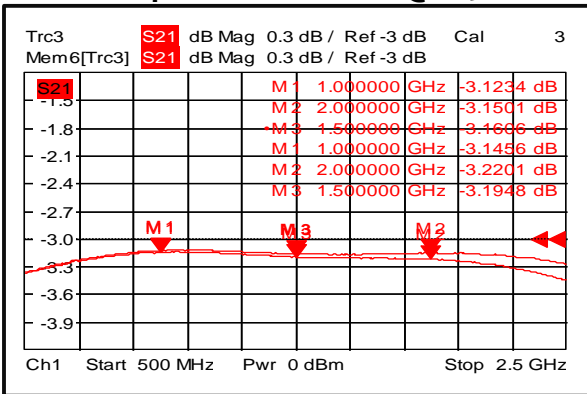
Loss & Amplitude Imbalance @+25°C



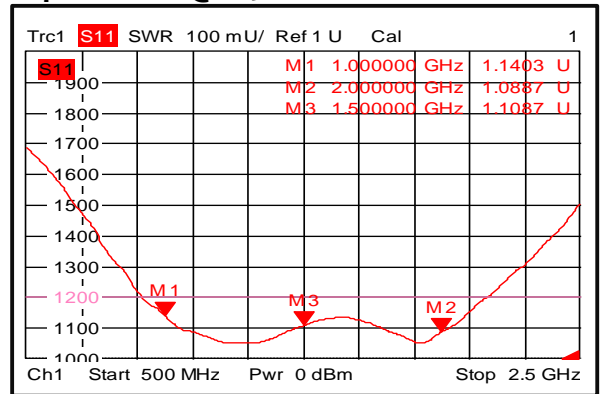
Loss & Amplitude Imbalance @-45°C



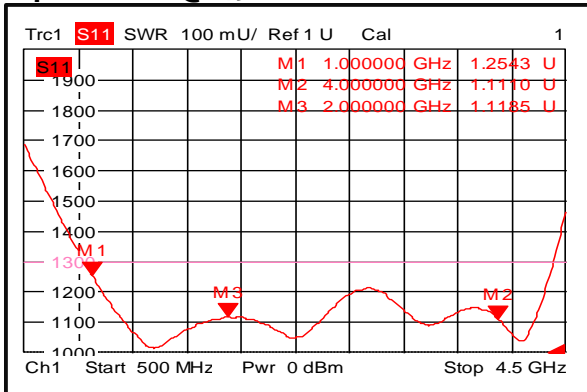
Loss & Amplitude Imbalance @+85°C



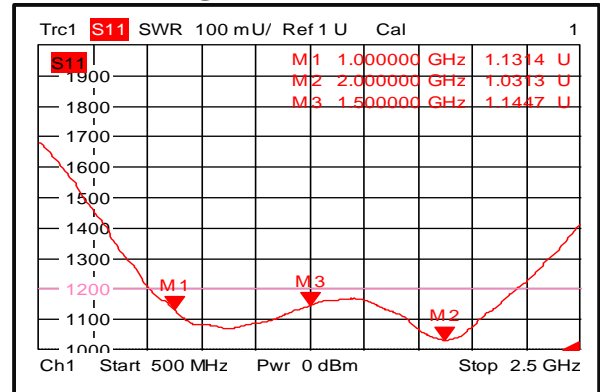
Input VSWR @+25°C



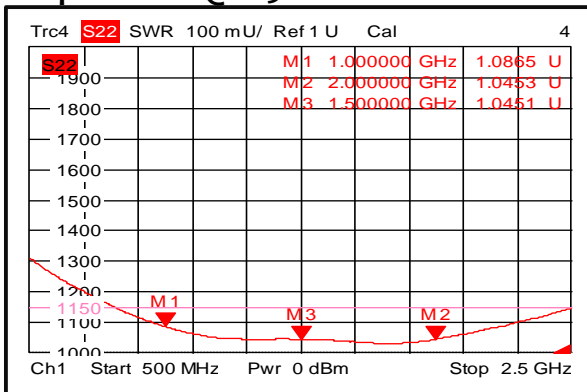
Input VSWR @-45°C



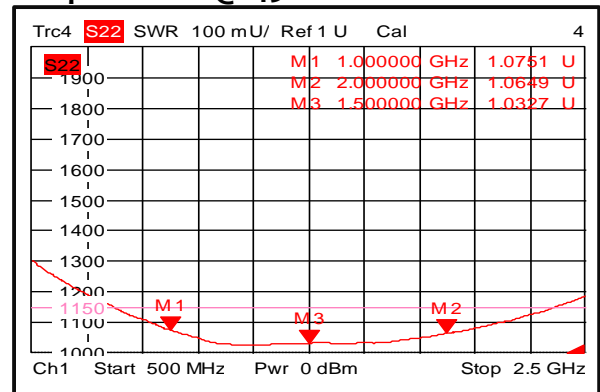
Input VSWR @+85°C



Output VSWR @+25°C



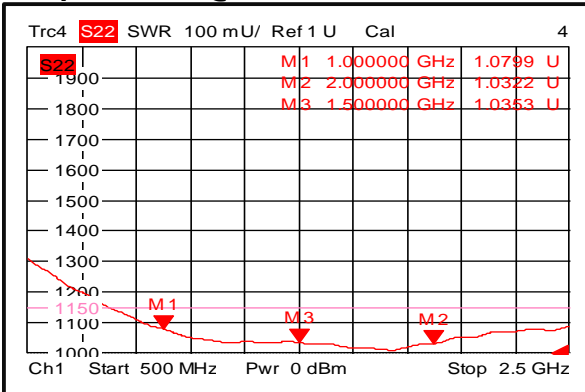
Output VSWR @-45°C



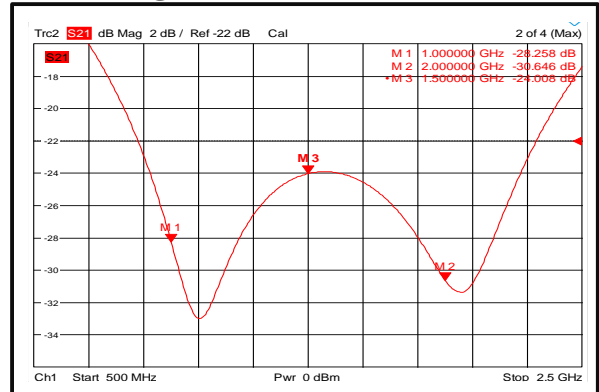
COAXIAL 30W 0° 2-WAY POWER DIVIDER 1 - 2GHz



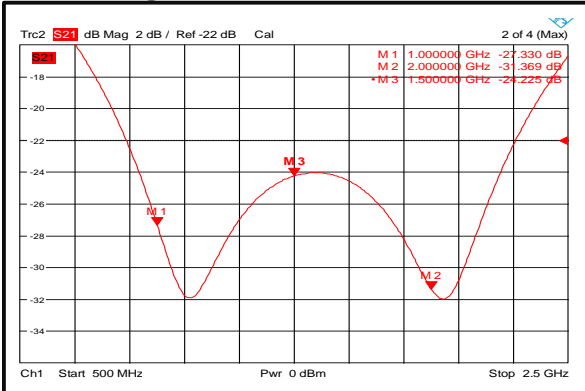
**Output VSWR @+85°C**



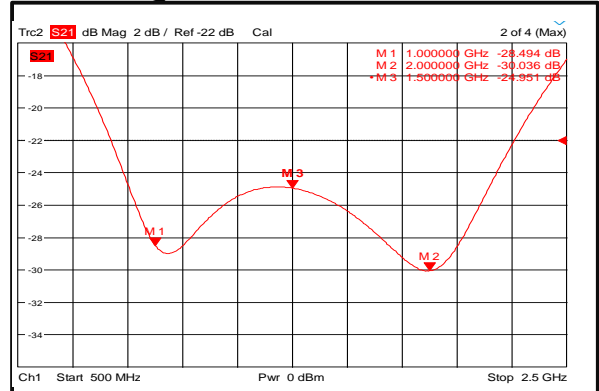
**Isolation @+25°C**



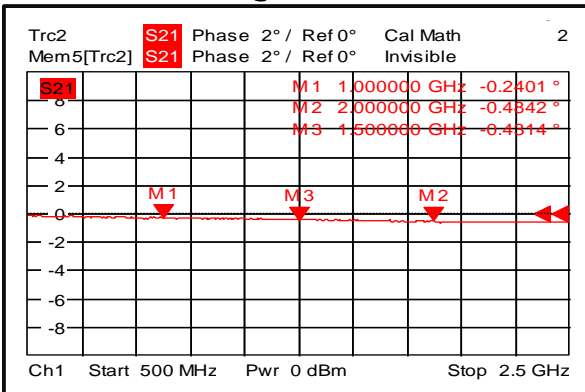
**Isolation @-45°C**



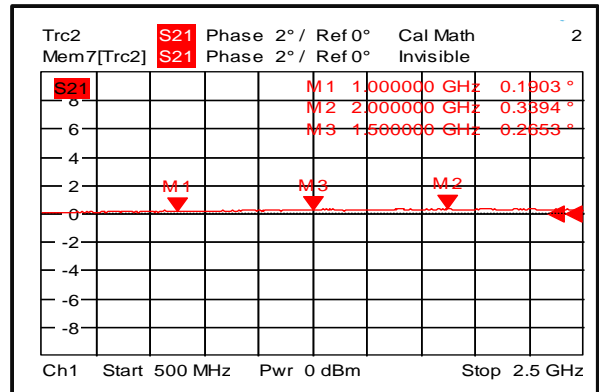
**Isolation @+85°C**



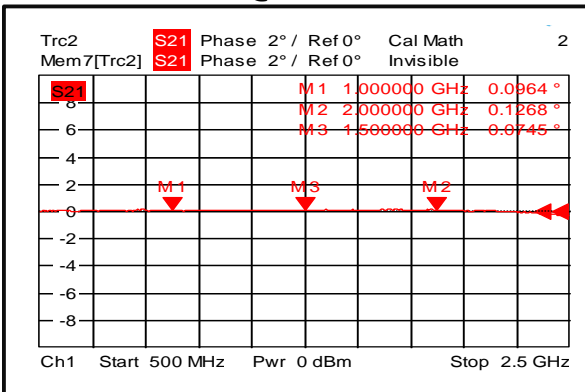
**Phase Imbalance @+25°C**



**Phase Imbalance @-45°C**



**Phase Imbalance @+85°C**



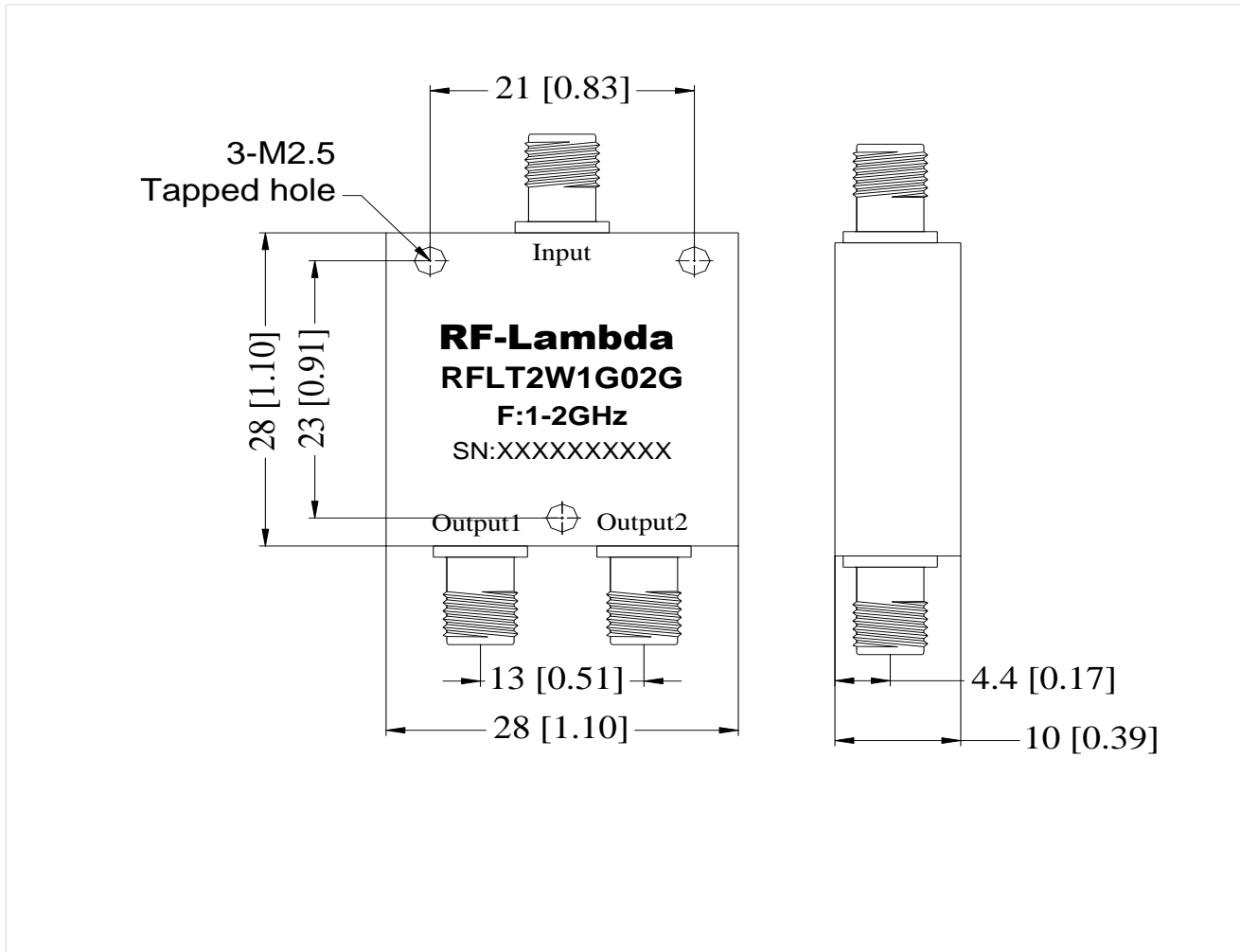
**COAXIAL 30W 0° 2-WAY POWER DIVIDER 1 - 2GHz**



### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.25$  [0.01]



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