



Coaxial 30W 0° 2-Way Power Divider 0.5 - 6GHz



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.	Min.	Typ.	Max.	Units
Frequency Range		0.5		2	2		6	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.3	0.5		0.6	0.8	dB
Isolation		18	20		18	20		dB
Input VSWR			1.3	1.4		1.3	1.4	: 1
Output VSWR			1.2	1.3		1.25	1.3	: 1
Amplitude Imbalance				0.2			0.2	dB
Phase Imbalance				3			3	deg
Power Rating	Forward Power	30						W
	Reverse Power	2						W
	Peak Power	300						W
Impedance		50						Ohms
Weight		2.82						Ounces
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Blue Paint						

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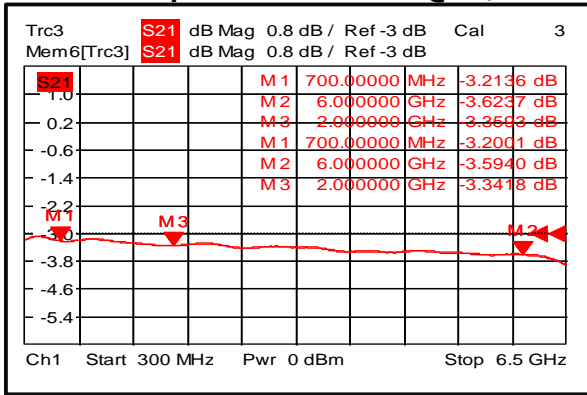
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°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)

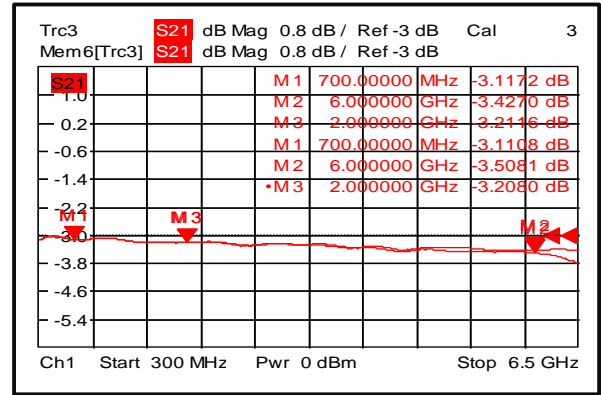


Typical Performance Plots

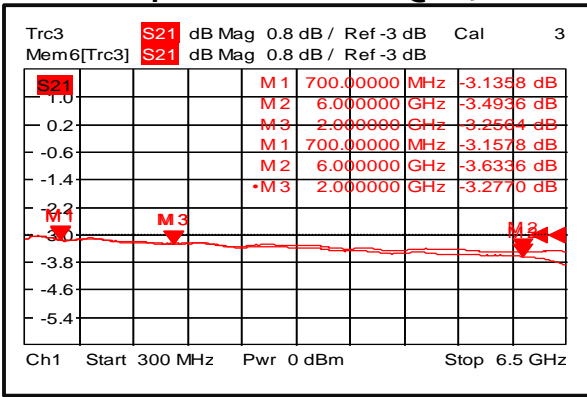
Loss & Amplitude Imbalance @+25°C



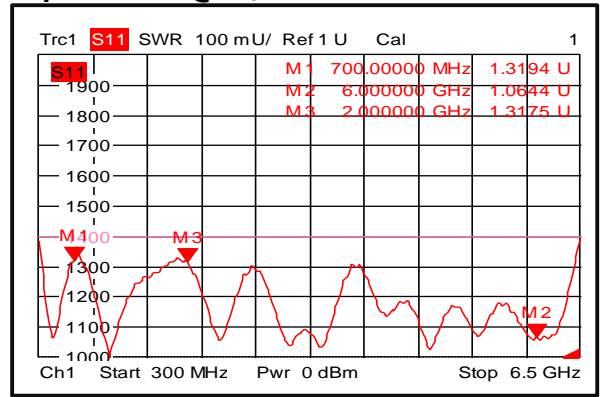
Loss & Amplitude Imbalance @-45°C



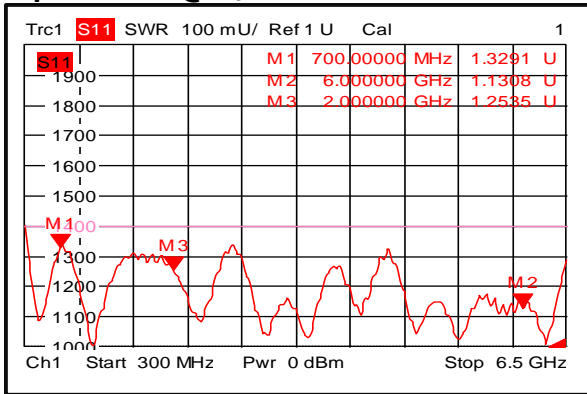
Loss & Amplitude Imbalance @+85°C



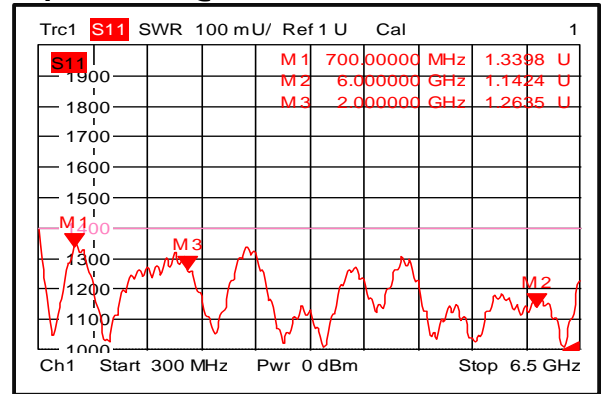
Input VSWR @+25°C



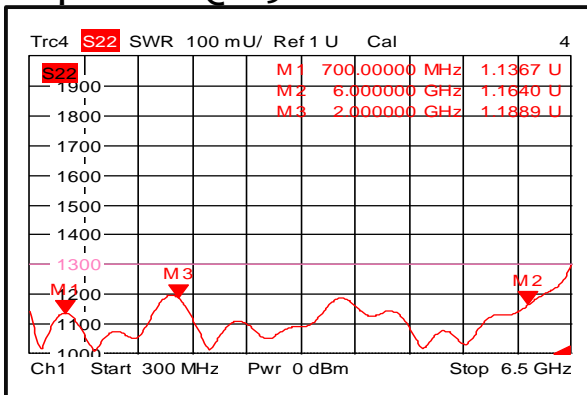
Input VSWR @-45°C



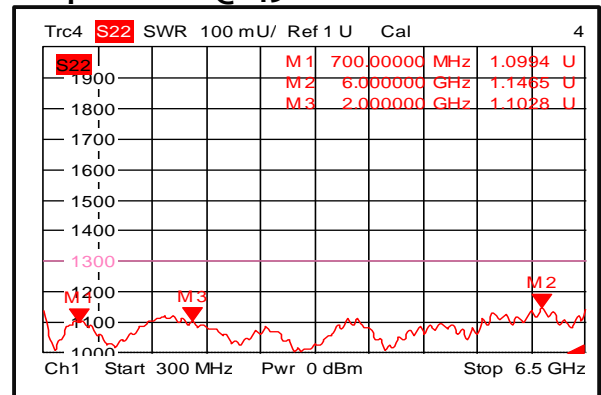
Input VSWR @+85°C



Output VSWR @+25°C



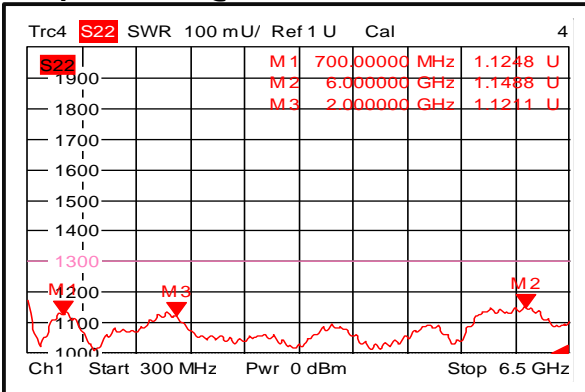
Output VSWR @-45°C



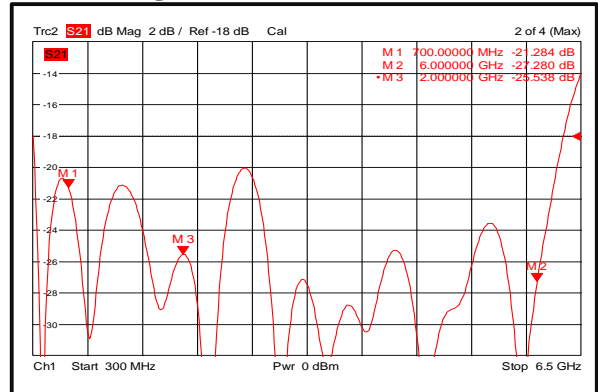
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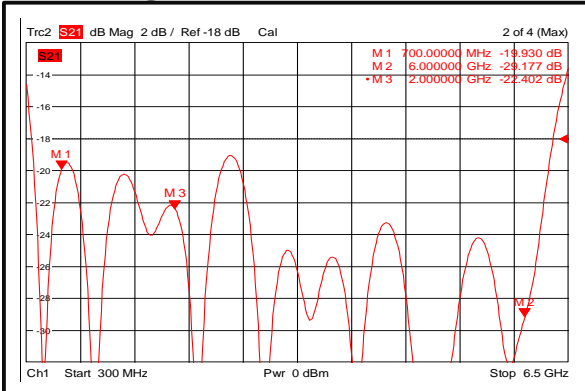
Output VSWR @+85°C



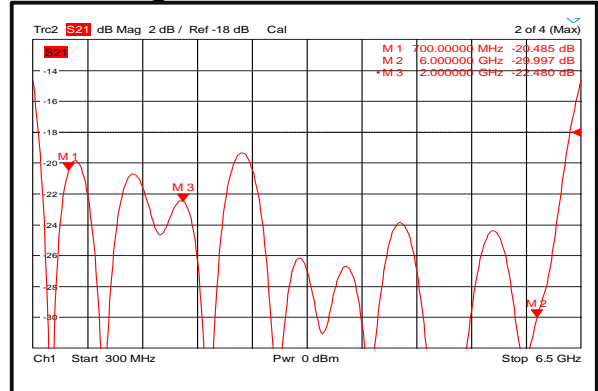
Isolation @+25°C



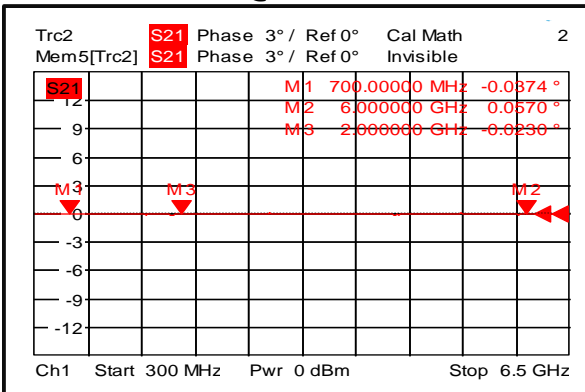
Isolation @-45°C



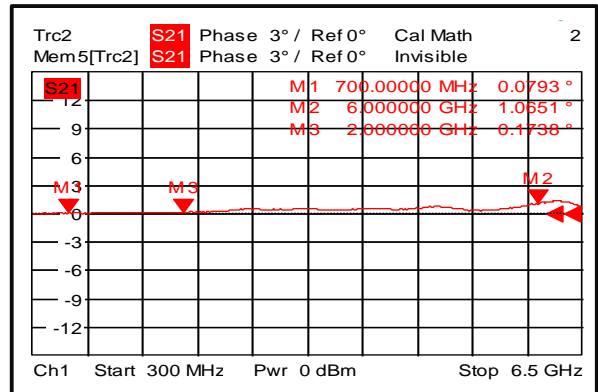
Isolation @+85°C



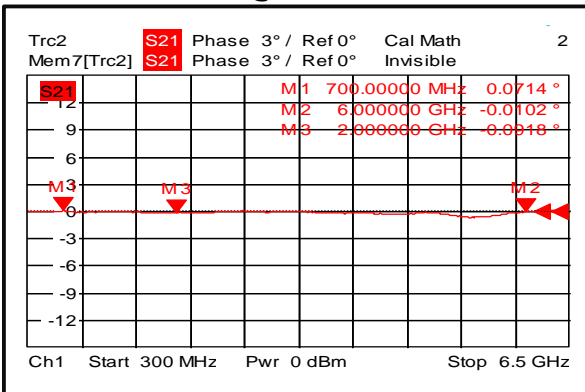
Phase Imbalance @+25°C



Phase Imbalance @-45°C



Phase Imbalance @+85°C

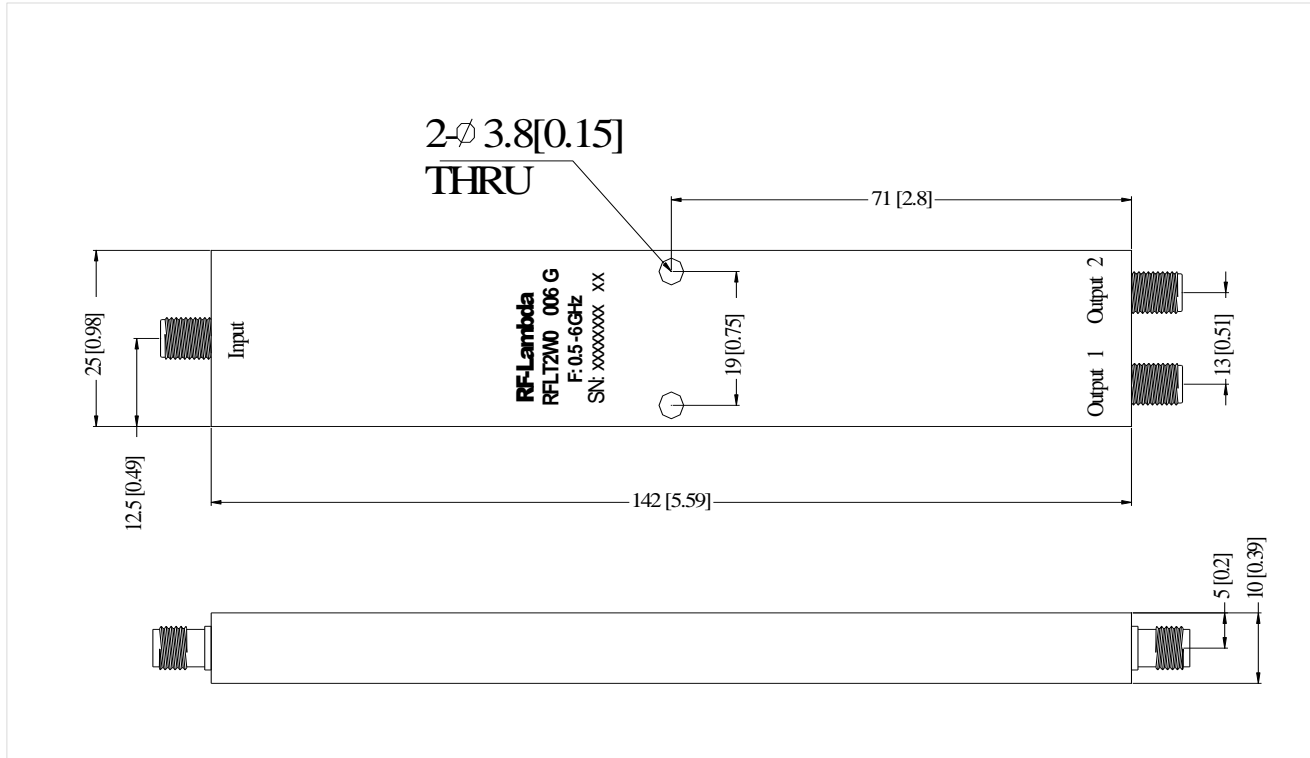




Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.25 [0.01]



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