



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



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		4	GHz
Nominal Splitter Loss			6		dB
Insertion Loss			0.7	1.0	dB
Isolation		20	22		dB
Input VSWR			1.25	1.3	: 1
Output VSWR			1.15	1.2	: 1
Amplitude Imbalance			± 0.2	± 0.3	dB
Phase Imbalance			± 3	± 4	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			

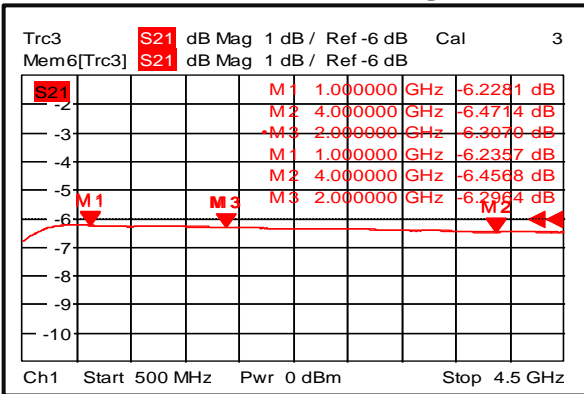
Environmental Specifications

Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

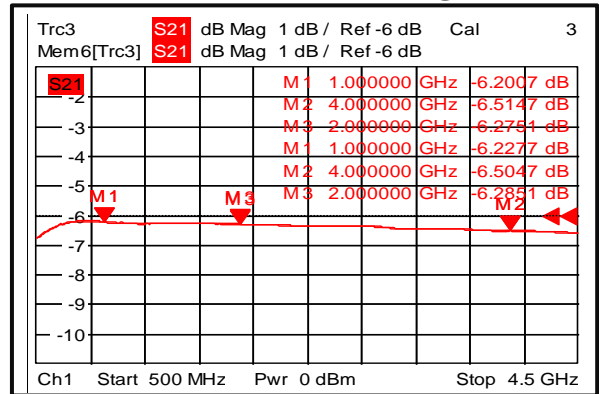


Typical Performance Plots

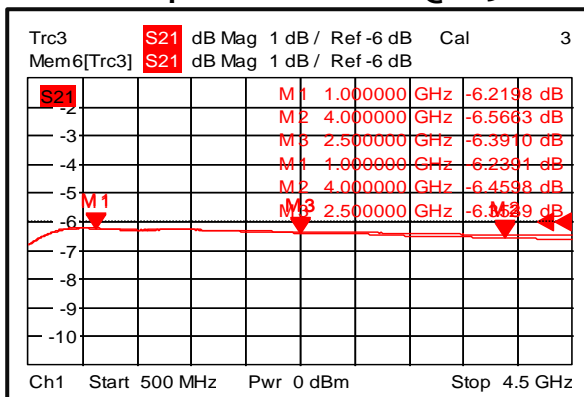
Loss & Amplitude Imbalance @+25°C



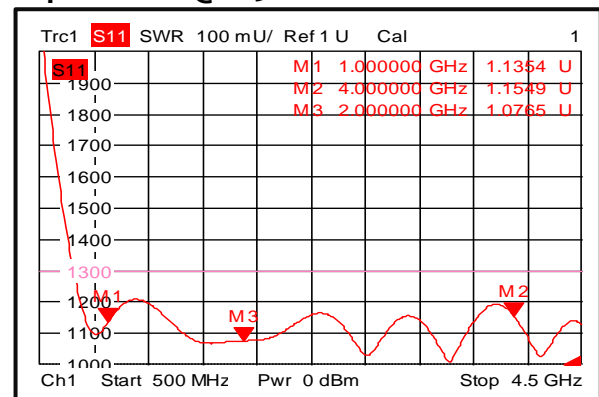
Loss & Amplitude Imbalance @-45°C



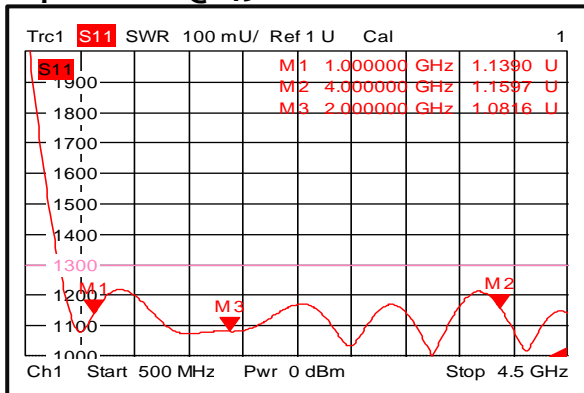
Loss & Amplitude Imbalance @+85°C



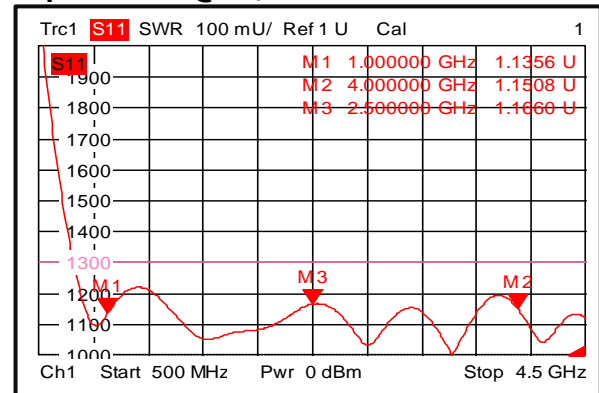
Input VSWR @+25°C



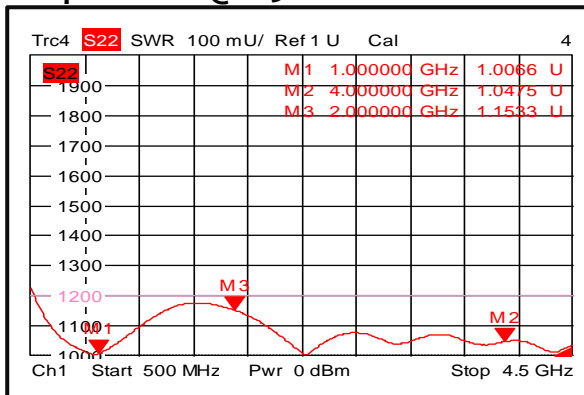
Input VSWR @-45°C



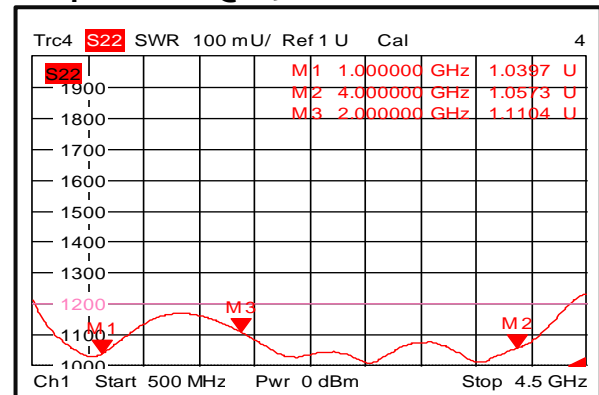
Input VSWR @+85°C



Output VSWR @+25°C



Output VSWR @-45°C



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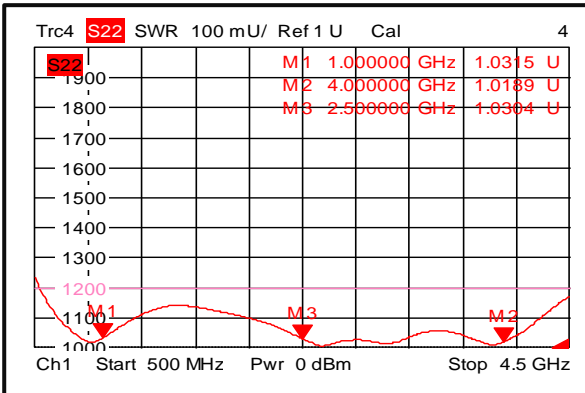


RF-LAMBDA

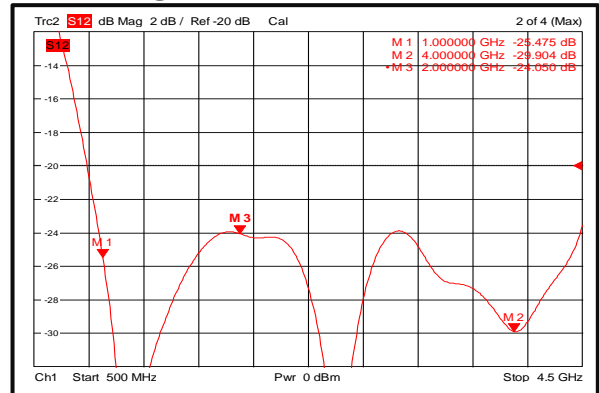
LEADER OF RF BROADBAND SOLUTIONS

RFLT4W1G04G

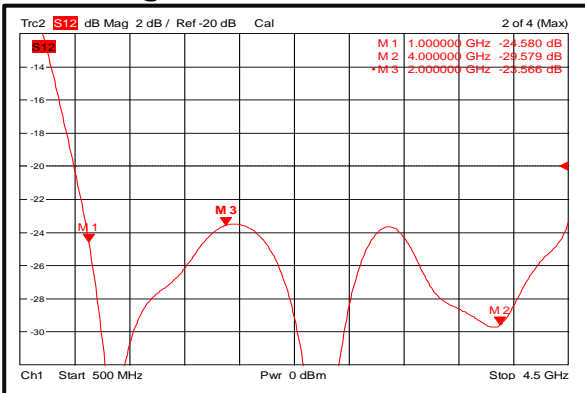
Output VSWR @+85°C



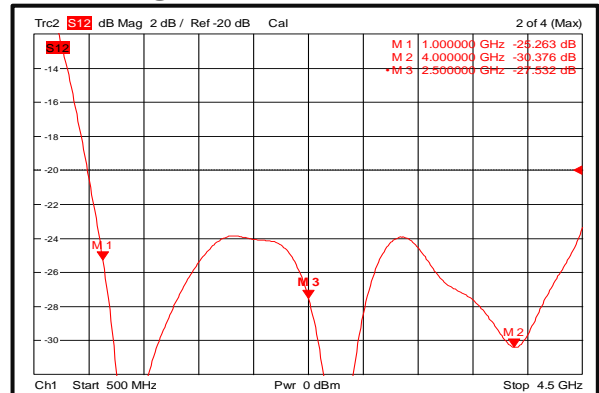
Isolation @+25°C



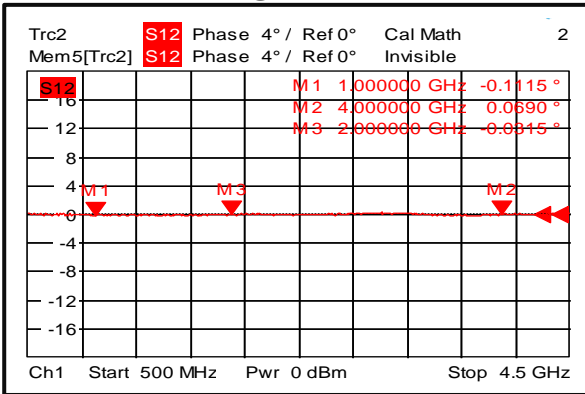
Isolation @-45°C



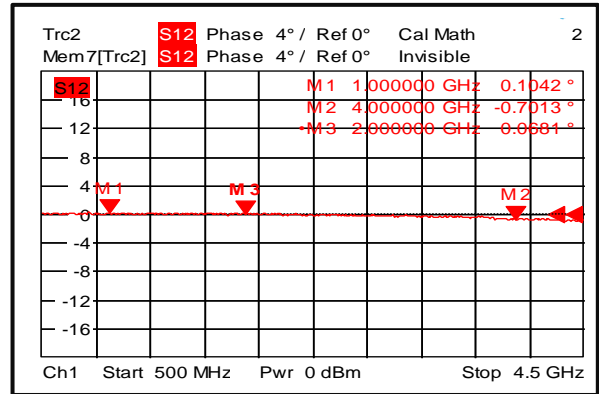
Isolation @+85°C



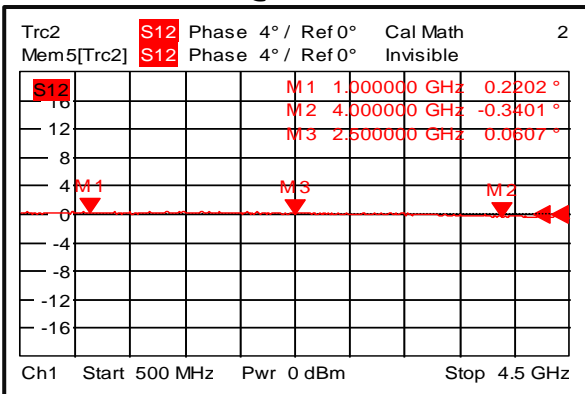
Phase Imbalance @+25°C



Phase Imbalance @-45°C



Phase Imbalance @+85°C



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RF-LAMBDA

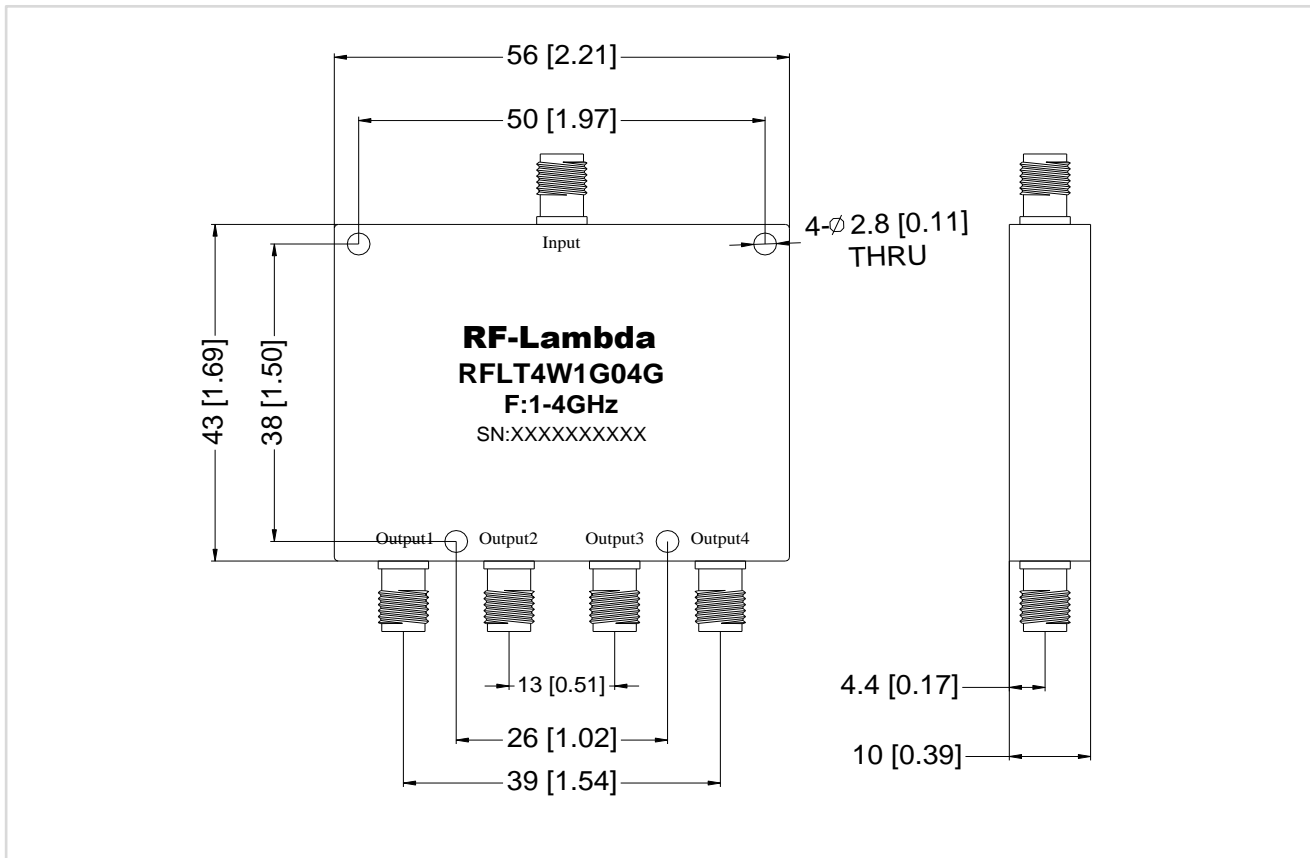
LEADER OF RF BROADBAND SOLUTIONS

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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



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