



Coaxial 30W 0° 2-Way Power Divider 6 - 18GHz



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	6		12	12		18	GHz
Nominal Splitter Loss		3			3		dB
Insertion Loss		0.4	0.5		0.5	0.6	dB
Isolation	18	20		18	19		dB
Input VSWR		1.3	1.4		1.4	1.5	:1
Output VSWR		1.3	1.4		1.3	1.4	:1
Amplitude Imbalance		0.15	0.2		0.2	0.3	dB
Phase Imbalance		3	4		4	5	deg
Power Rating	Forward Power	30					W
	Reverse Power	1					W
	Peak Power	300					W
Impedance	50					Ohms	
Weight	0.71					Ounces	
Input / Output Connectors	SMA-Female						
Material	Aluminum						
Finish	Blue Paint						

Environmental Specifications

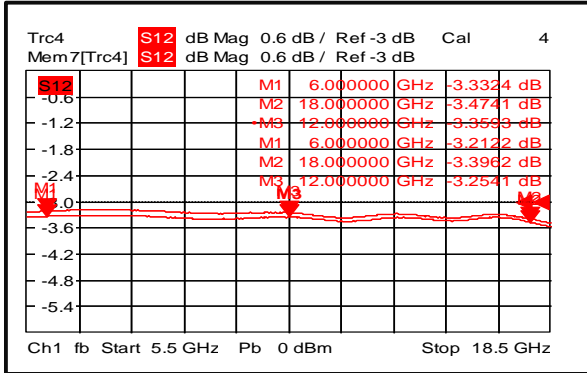
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-55 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

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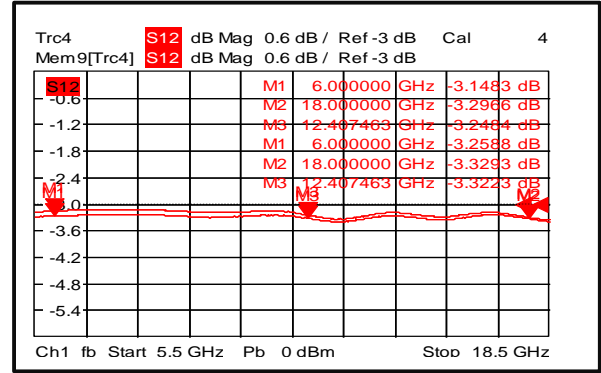


Typical Performance Plots

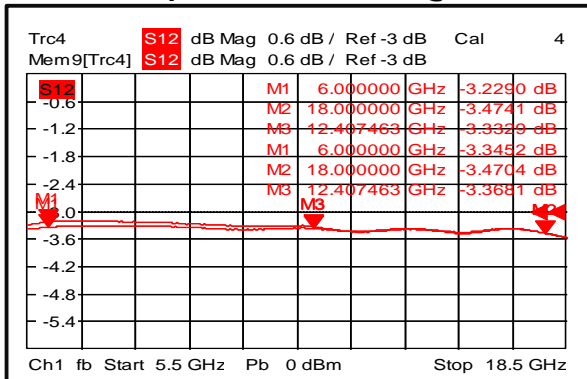
Loss & Amplitude Imbalance @+25°C



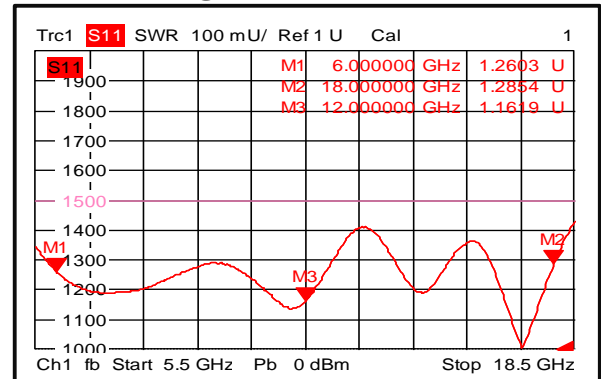
Loss & Amplitude Imbalance @-45°C



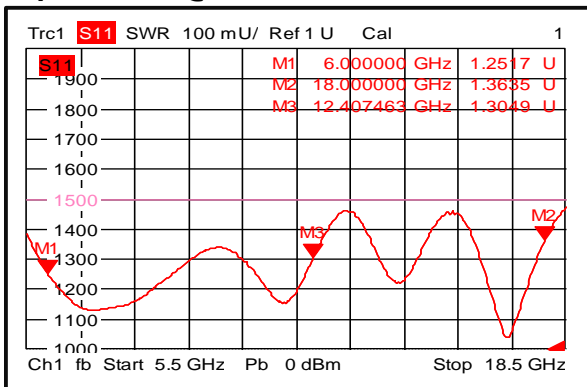
Loss & Amplitude Imbalance @+85°C



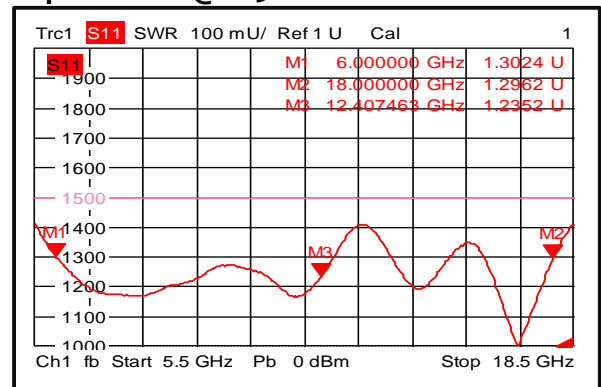
Input VSWR @+25°C



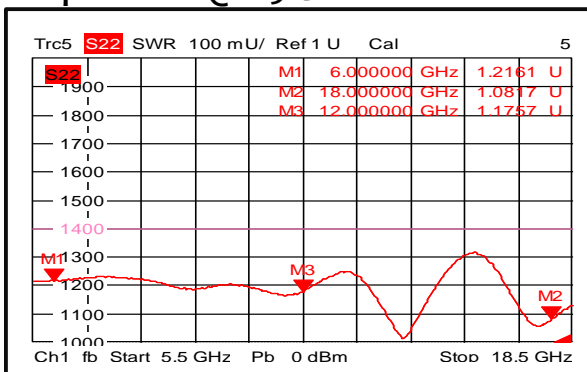
Input VSWR @-45°C



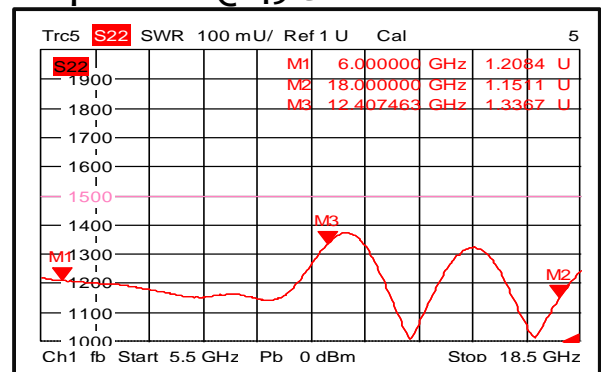
Input VSWR @+85°C



Output VSWR @+25°C



Output VSWR @-45°C



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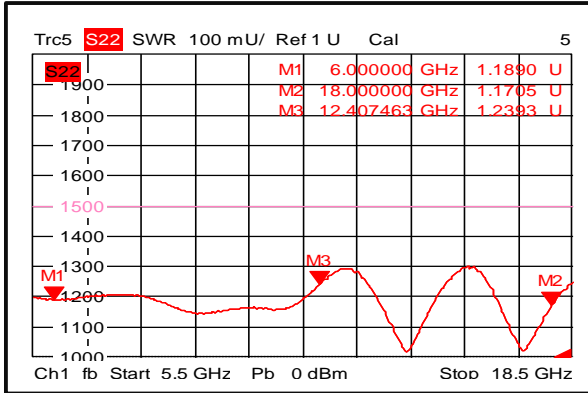


RF-LAMBDA

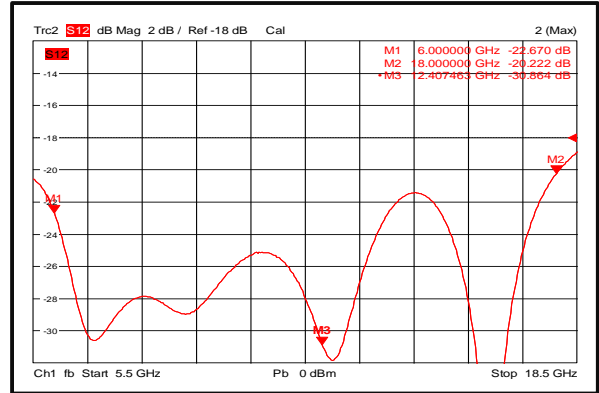
LEADER OF RF BROADBAND SOLUTIONS

RFLT2W6G18G

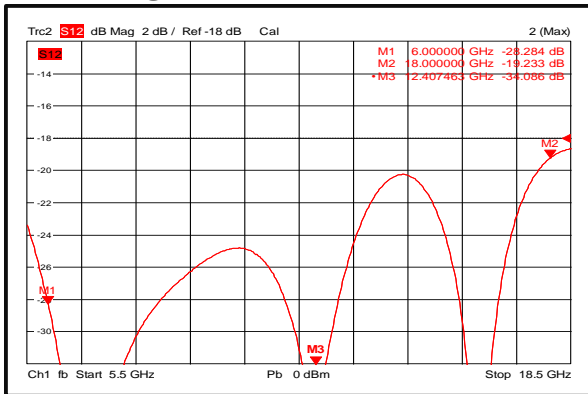
Output VSWR @+85°C



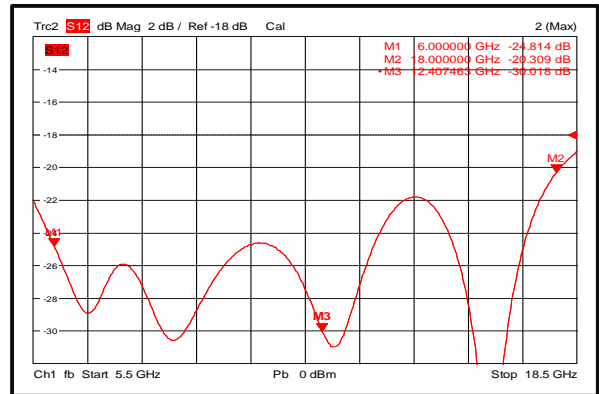
Isolation @+25°C



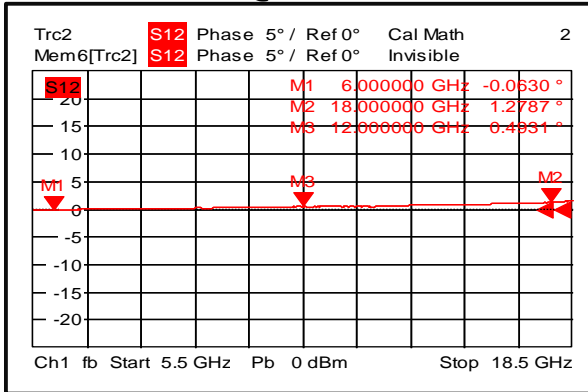
Isolation @-45°C



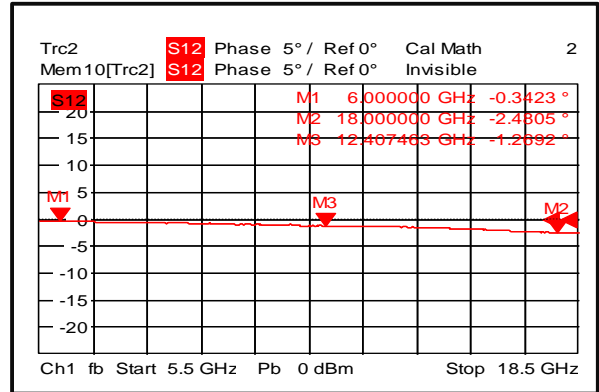
Isolation @+85°C



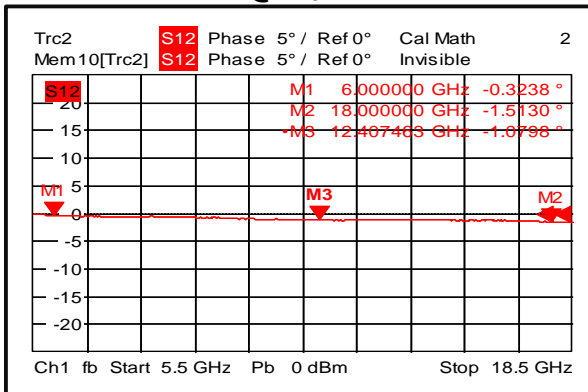
Phase Imbalance @+25°C



Phase Imbalance @-45°C



Phase Imbalance @+85°C



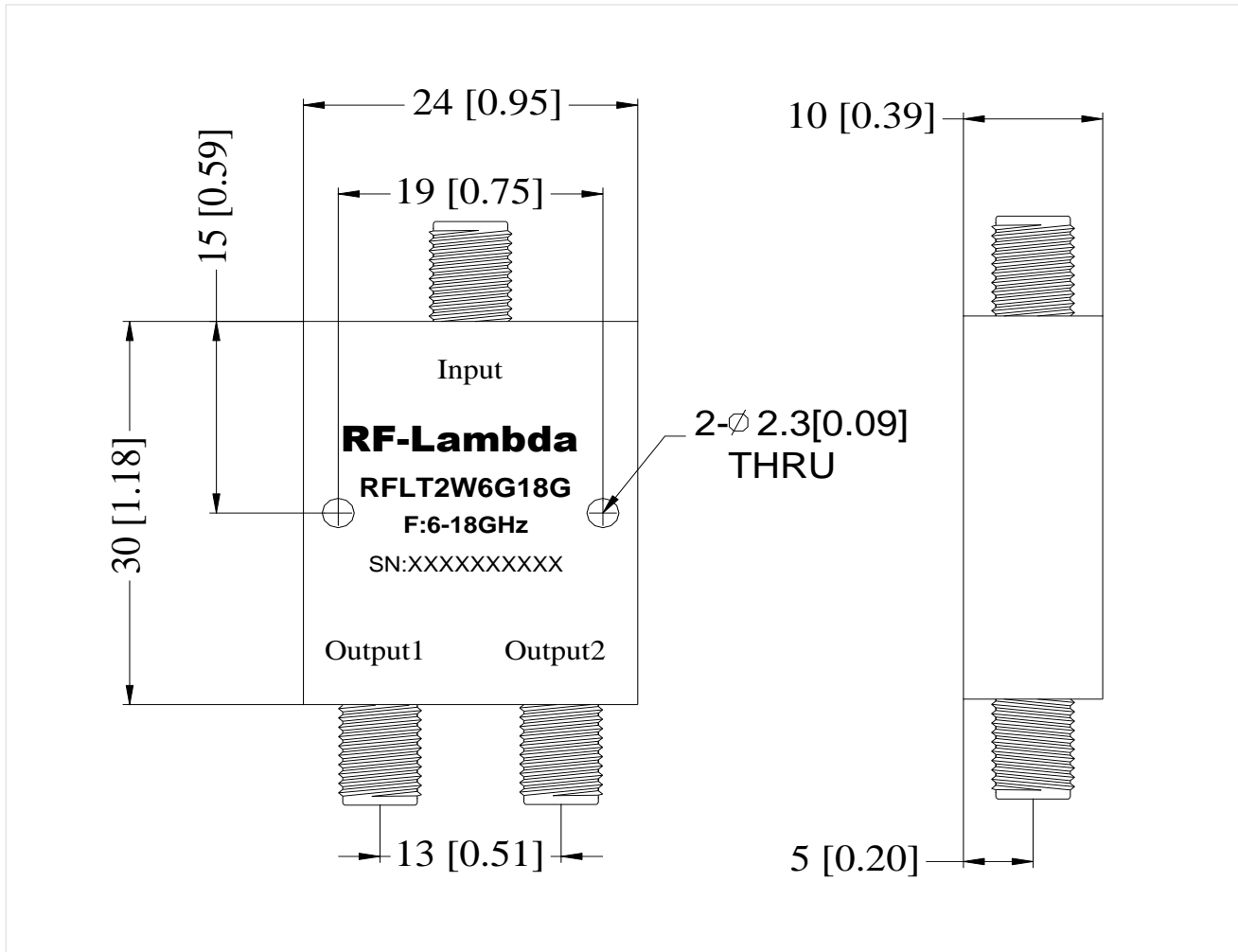
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



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