



Coaxial 30W 0° 4-Way Power Divider 2 - 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, $T_A=25^\circ C$

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		2		8	8		18	GHz
Nominal Splitter Loss			6			6		dB
Insertion Loss			0.9	1.2		1.5	1.8	dB
Isolation		17	19		16	18		dB
Input VSWR			1.6	1.65		1.55	1.65	: 1
Output VSWR			1.4	1.6		1.4	1.6	: 1
Amplitude Imbalance			±0.25	±0.3		±0.3	±0.4	dB
Phase Imbalance			±4	±5		±5	±6	deg
Power Rating	Forward Power	30						W
	Reverse Power	1						W
	Peak Power	300						W
Impedance		50						Ohms
Weight		3.88						ounce
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Blue Paint						

Environmental Specifications

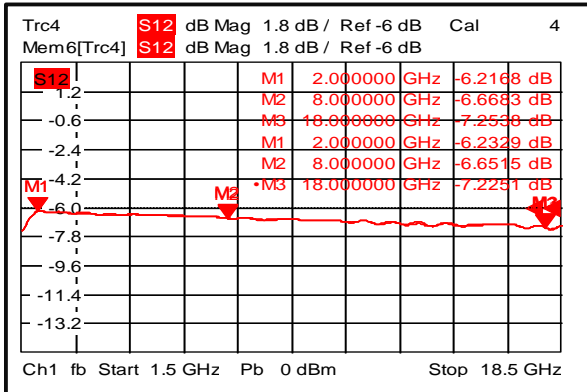
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Coaxial 30W 0° 4-Way Power Divider 2 - 18GHz

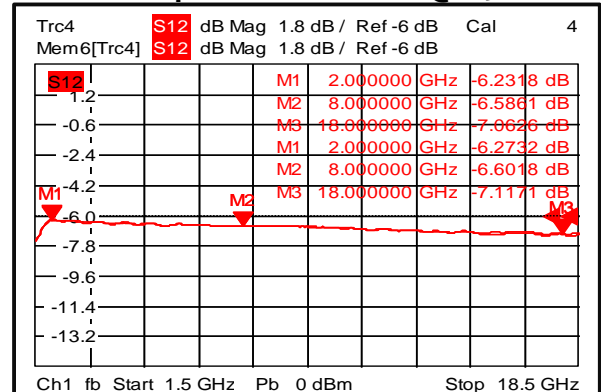


Typical Performance Plots

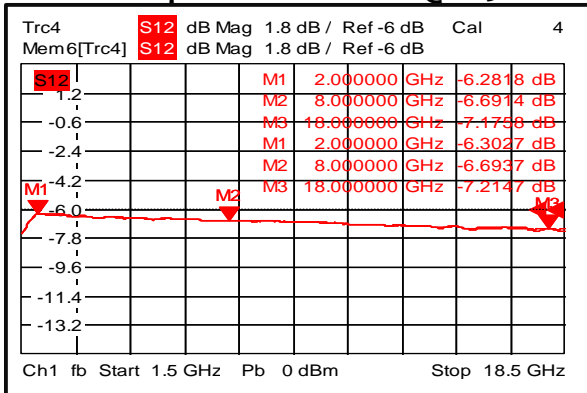
Loss & Amplitude Imbalance @+25°C



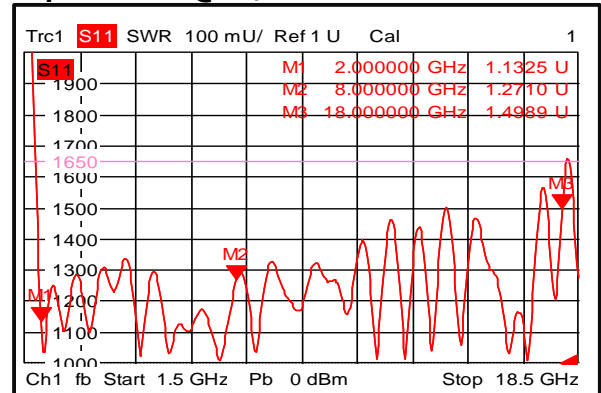
Loss & Amplitude Imbalance @-45°C



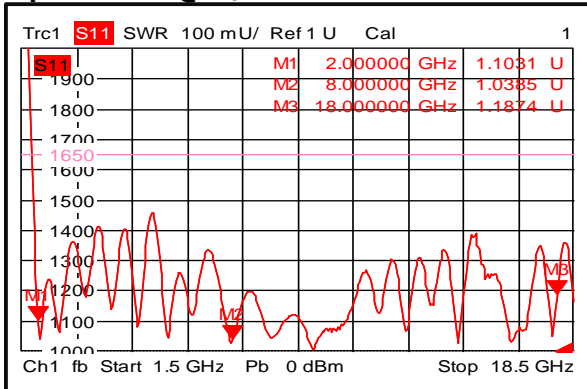
Loss & Amplitude Imbalance @+85°C



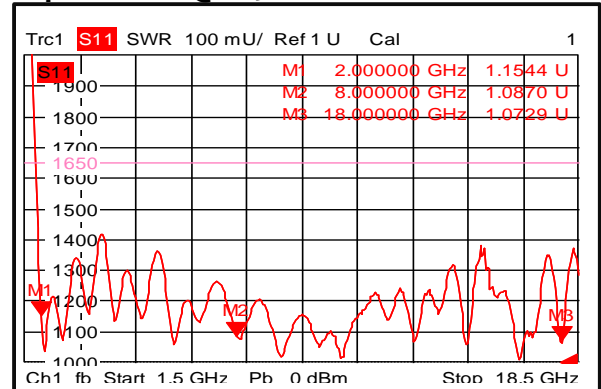
Input VSWR @+25°C



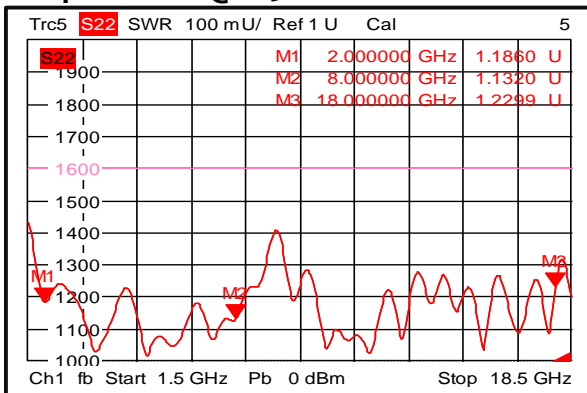
Input VSWR @-45°C



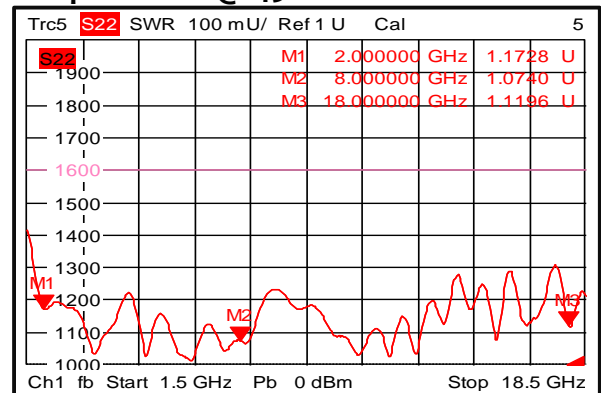
Input VSWR @+85°C



Output VSWR @+25°C



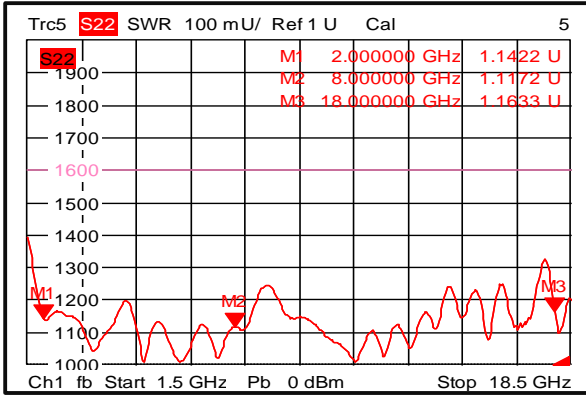
Output VSWR @-45°C



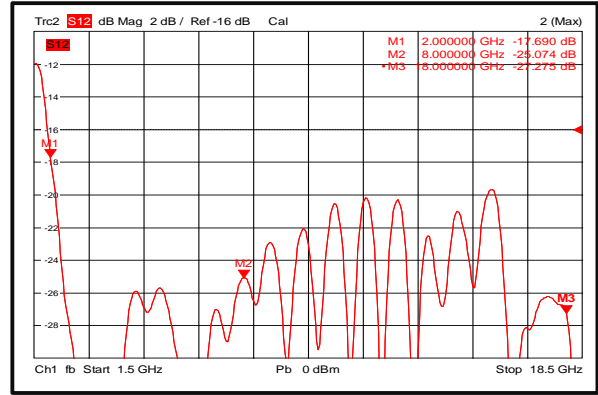
COAXIAL 30W 0° 4-WAY POWER DIVIDER 2 - 18GHz



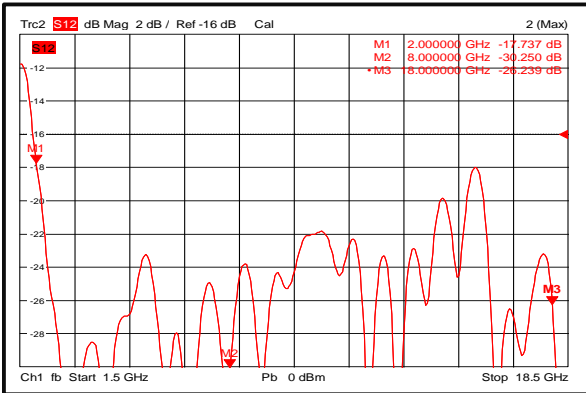
Output VSWR @+85°C



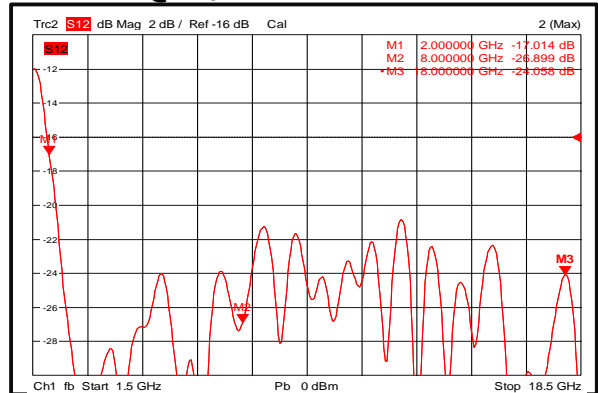
Isolation @+25°C



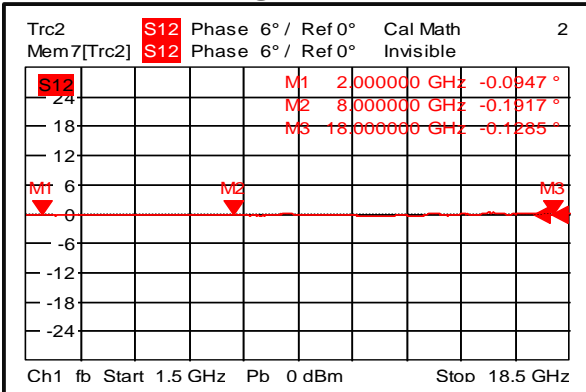
Isolation @-45°C



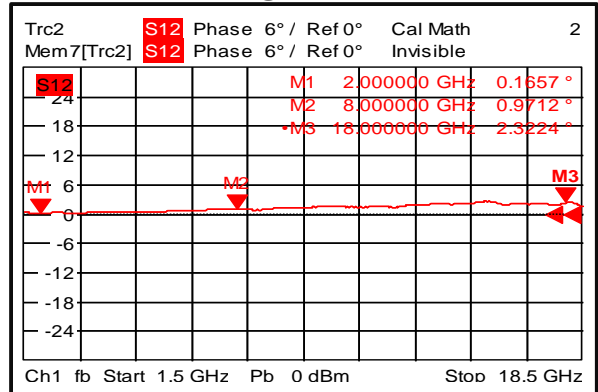
Isolation @+85°C



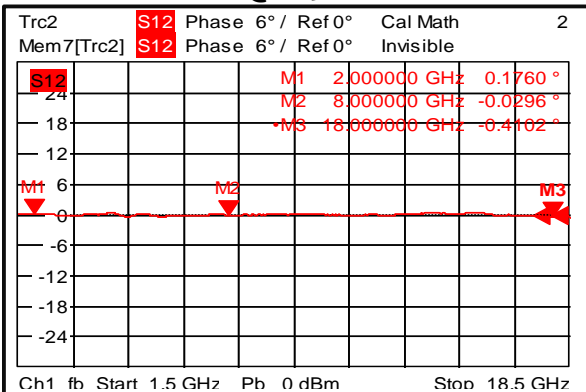
Phase Imbalance @+25°C



Phase Imbalance @-45°C



Phase Imbalance @+85°C





RF-LAMBDA

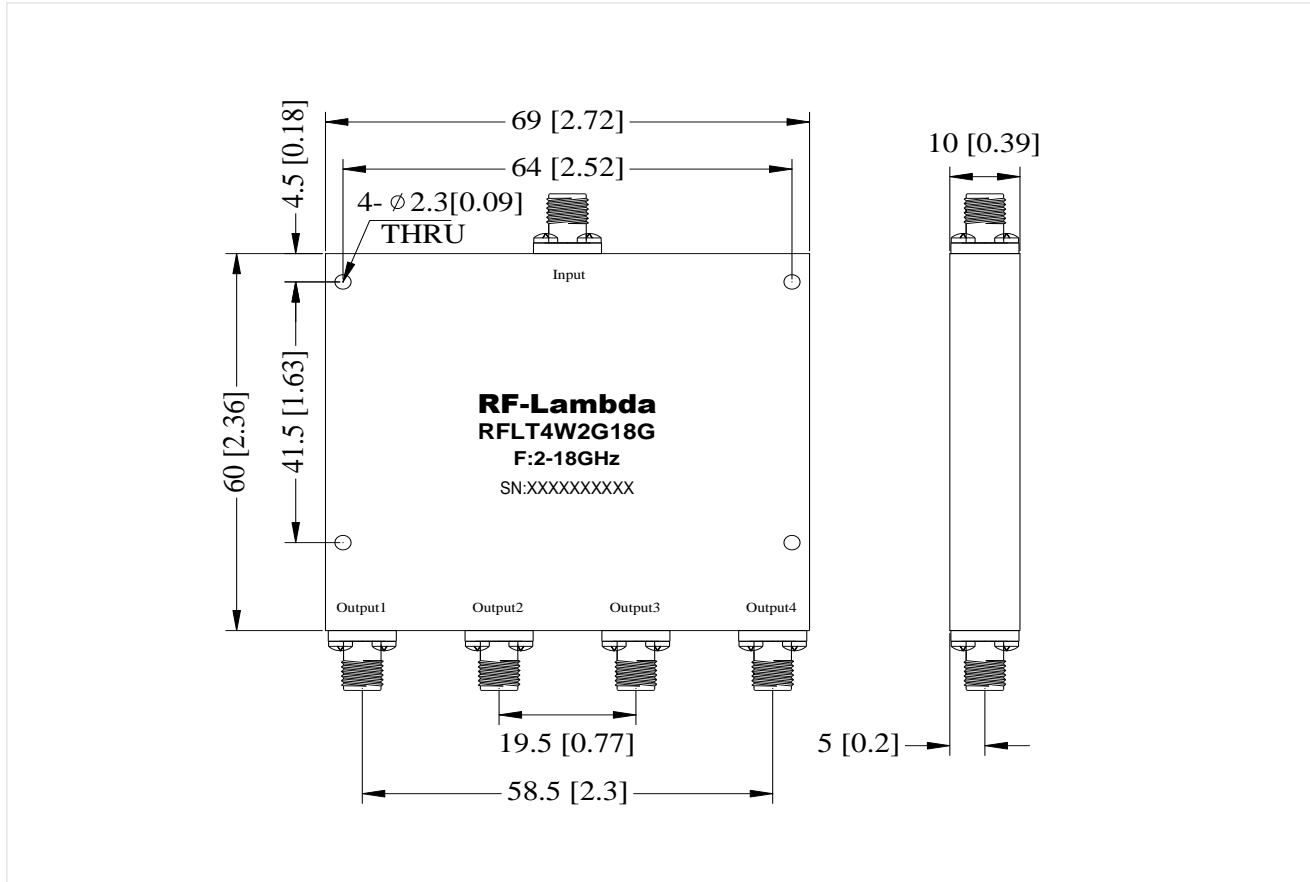
LEADER OF RF BROADBAND SOLUTIONS

RFLT4W2G18G

Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Coaxial 30W 0° 4-Way Power Divider 2 - 18GHz