



Coaxial 30W 0° 2-Way Power Divider 1-18GHz



Features

- High power handling capability up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature
- Aerospace and military applications
- LMDS multi-carrier operation
- High peak to average handling capability
- All specifications can be modified upon request

Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameters	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	1		8	8		18	GHz
Nominal Splitter Loss		6			6		dB
Insertion Loss		1.2	1.8		2.1	2.6	dB
Isolation	16	20		16	20		dB
Input VSWR		1.55	1.65		1.5	1.65	: 1
Output VSWR		1.3	1.5		1.3	1.5	: 1
Amplitude Imbalance		± 0.3	± 0.4		± 0.4	± 0.5	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	5.99					ounces	
Input / Output Connectors	SMA-Female						
Material	Aluminum						
Finishing	Blue Paint						

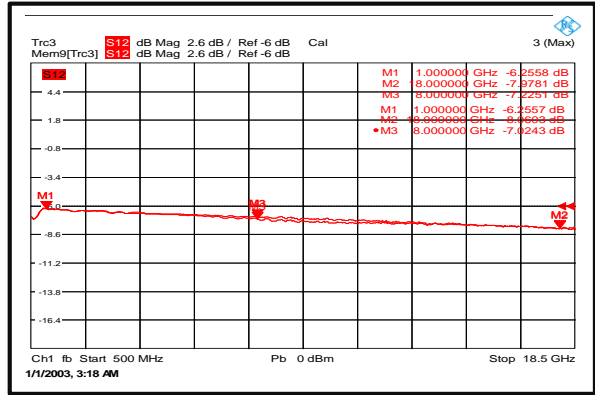


Environmental Specifications

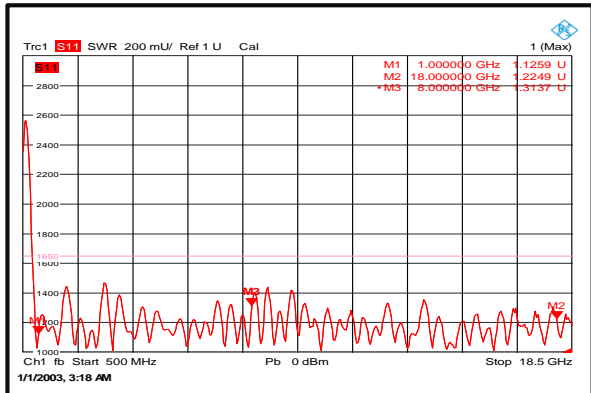
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

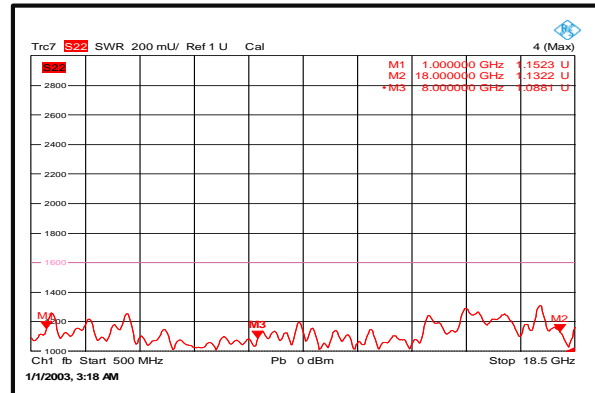
Loss & Amplitude Imbalance



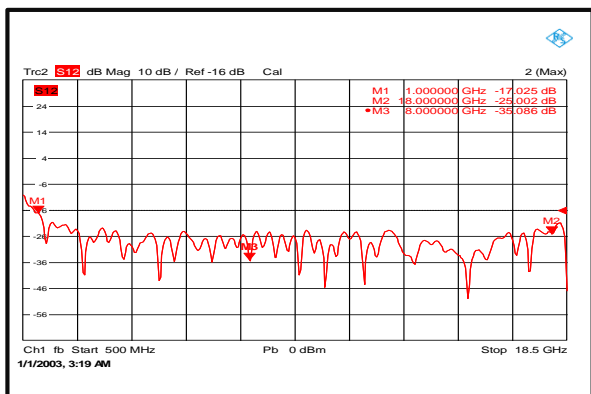
Input VSWR



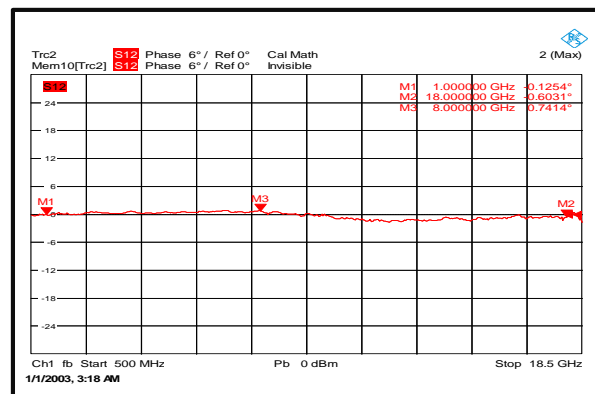
Output VSWR



Isolation



Phase Imbalance

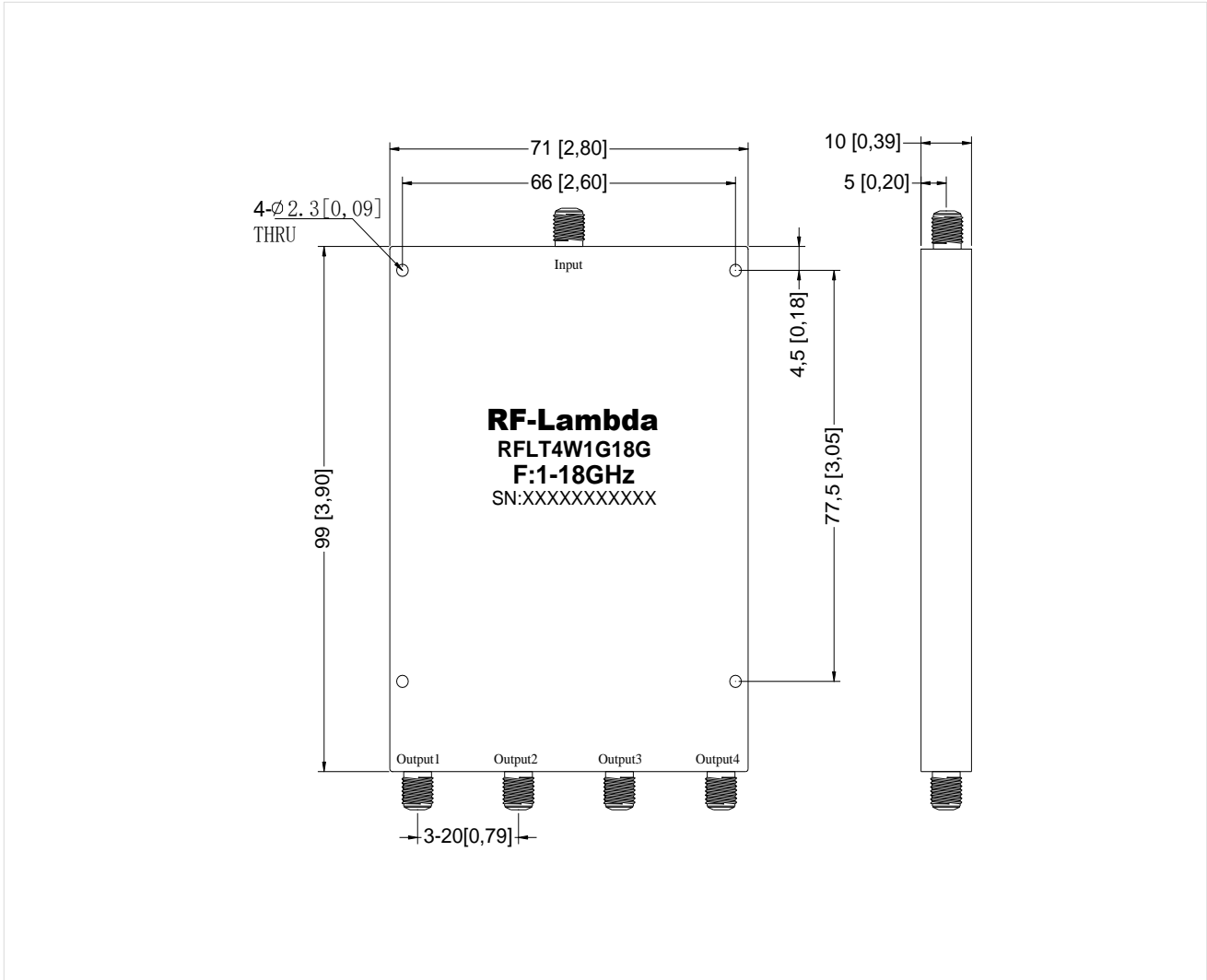


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Outline Drawing:

All Dimensions in mm [inches]
Tolerance ± 0.2 [0.008]



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