



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



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	4		8	8		18	GHz
Nominal Splitter Loss		3			3		dB
Insertion Loss		0.3	0.4		0.5	0.7	dB
Isolation	18	20		18	20		dB
Input VSWR		1.4	1.5		1.4	1.5	:1
Output VSWR		1.4	1.5		1.4	1.5	:1
Amplitude Imbalance		0.1	0.2		0.1	0.2	dB
Phase Imbalance		2	3		3	4	deg
Power Rating	Forward Power	30					W
	Reverse Power	1					W
	Peak Power	300					W
Impedance	50					Ohms	
Weight	1.06					ounces	
Input / Output Connectors	SMA-Female						
Material	Aluminum						
Finish	Blue Paint						

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



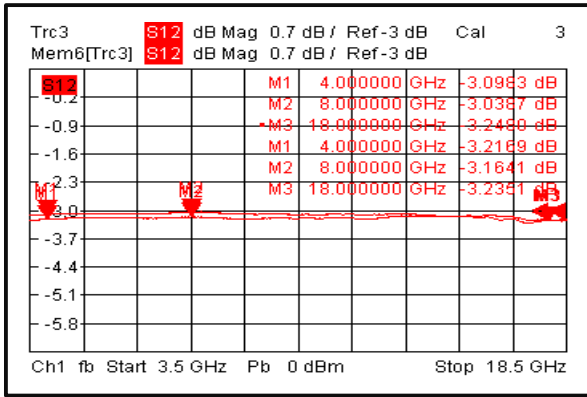
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°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)

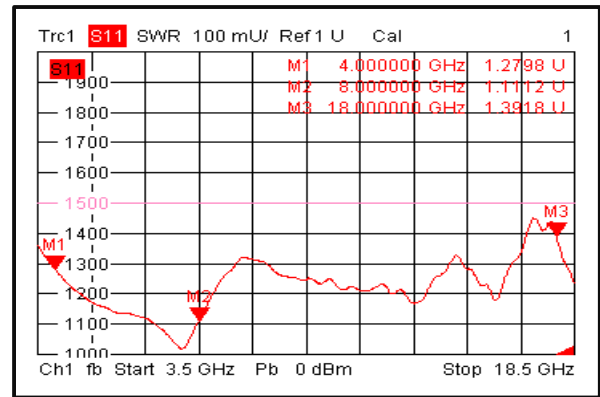


Typical Performance Plots

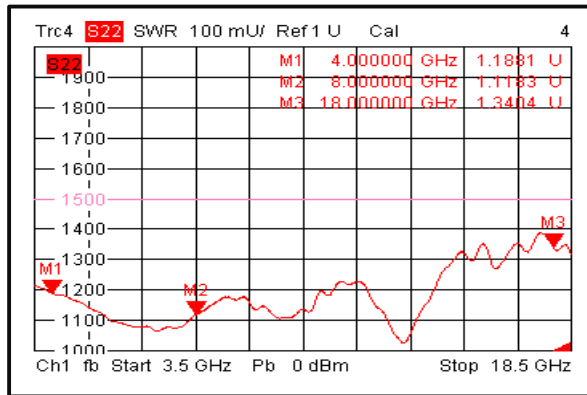
Loss & Amplitude Imbalance



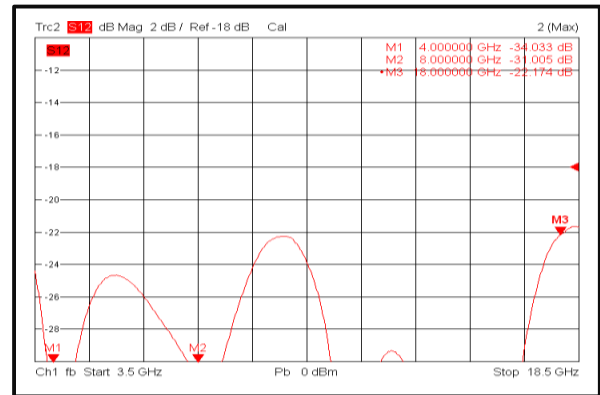
Input VSWR



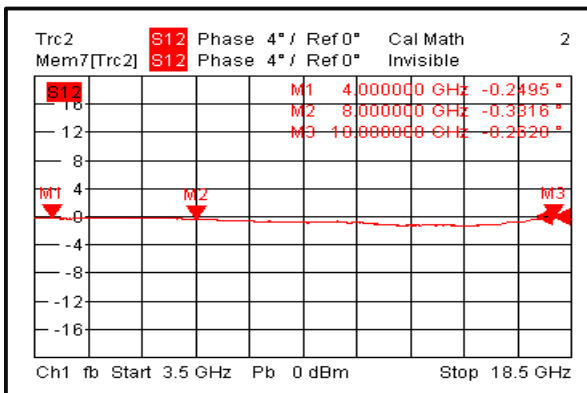
Output VSWR



Isolation



Phase Imbalance



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RF-LAMBDA

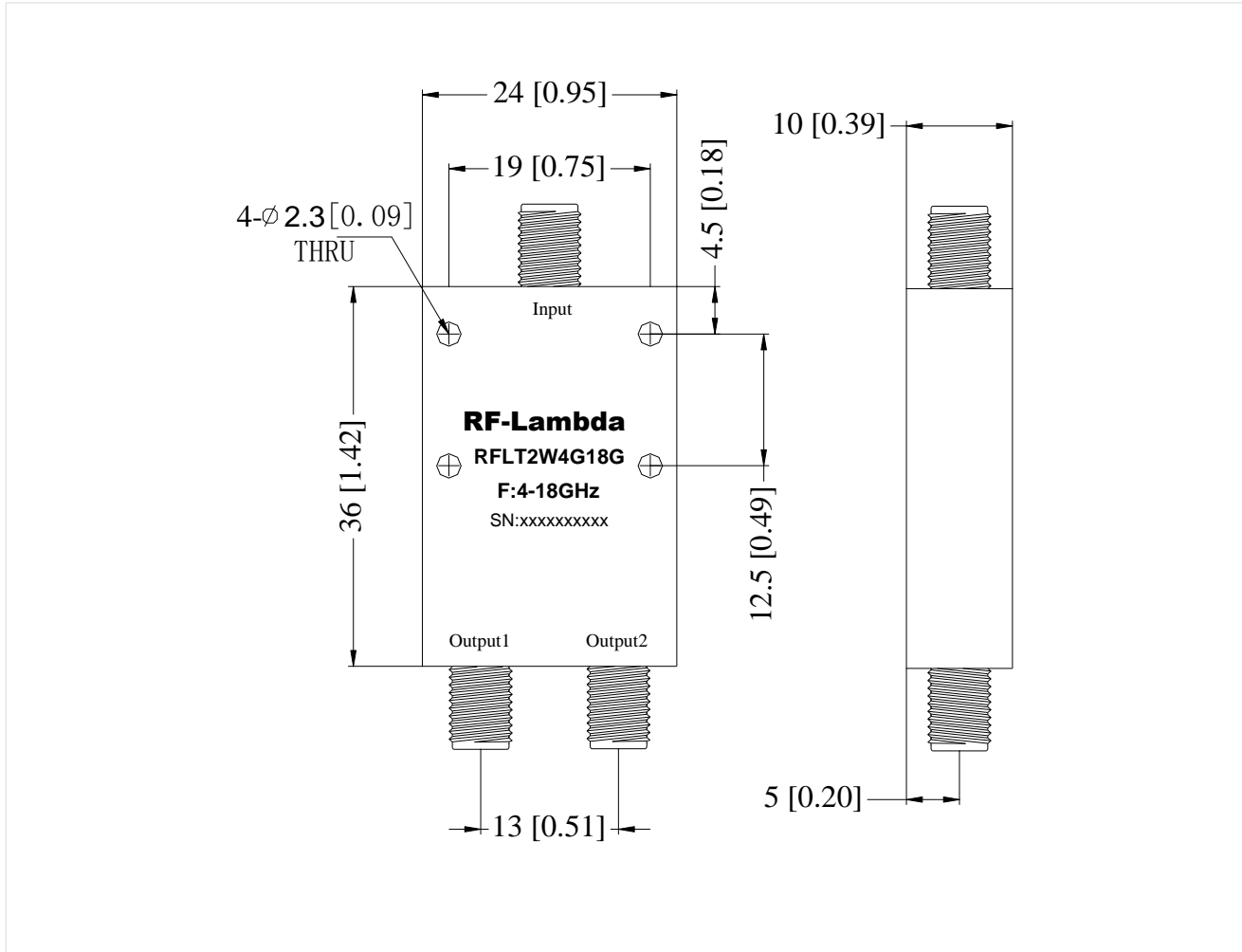
LEADER OF RF BROADBAND SOLUTIONS

RFLT2W4G18G

Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



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