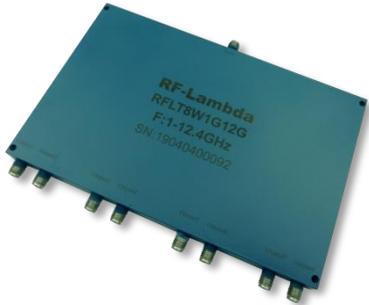




### Coaxial 30W 0° 8-Way Power Divider 1 – 12.4GHz



#### Features

- High power handling up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

#### Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless Infrastructure

#### Electrical Specifications, $T_A=25^\circ C$

Parameters		Min.	Typ.	Max.	Units
Frequency Range		1		12.4	GHz
Nominal Splitter Loss			9		dB
Insertion Loss			3.5	3.8	dB
Isolation		15	18		dB
Input VSWR			1.5	1.8	: 1
Output VSWR			1.3	1.5	: 1
Amplitude Imbalance			±0.5	±0.8	dB
Phase Imbalance			±6	±10	deg
Power Rating	Forward Power	30			W
	Reverse Power	1			W
	Peak Power	300			W
Impedance		50			Ohms
Weight		12.35			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

Coaxial 30W 0° 8-Way Power Divider 1 – 12.4GHz



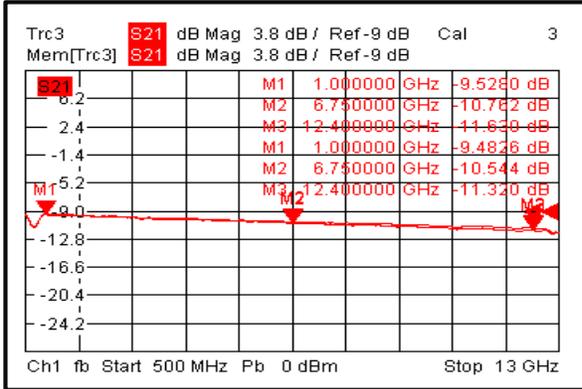
*Environmental Specifications and Test Standards*

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)

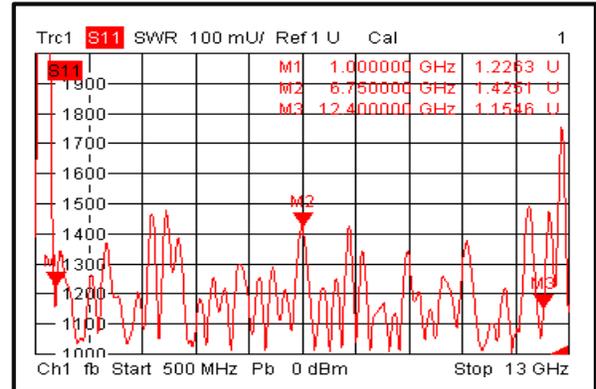


Typical Performance Plots

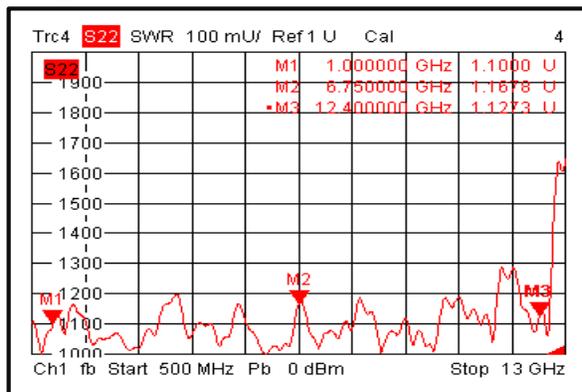
Loss & Amplitude Imbalance



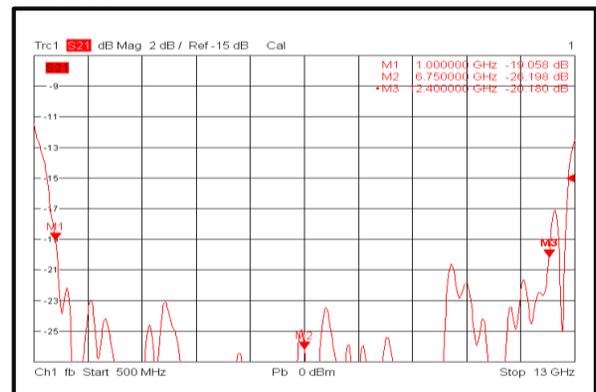
Input VSWR



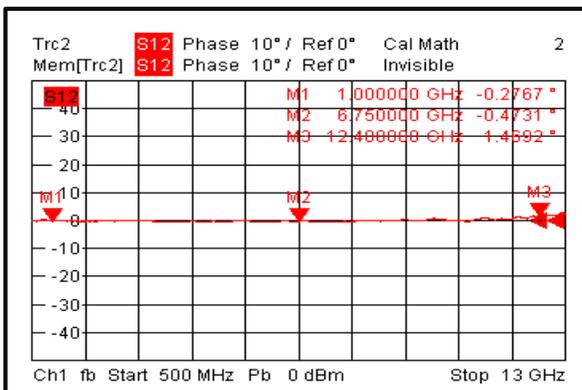
Output VSWR



Isolation



Phase Imbalance



Coaxial 30W 0° 8-Way Power Divider 1 -- 12.4GHz



# RF-LAMBDA

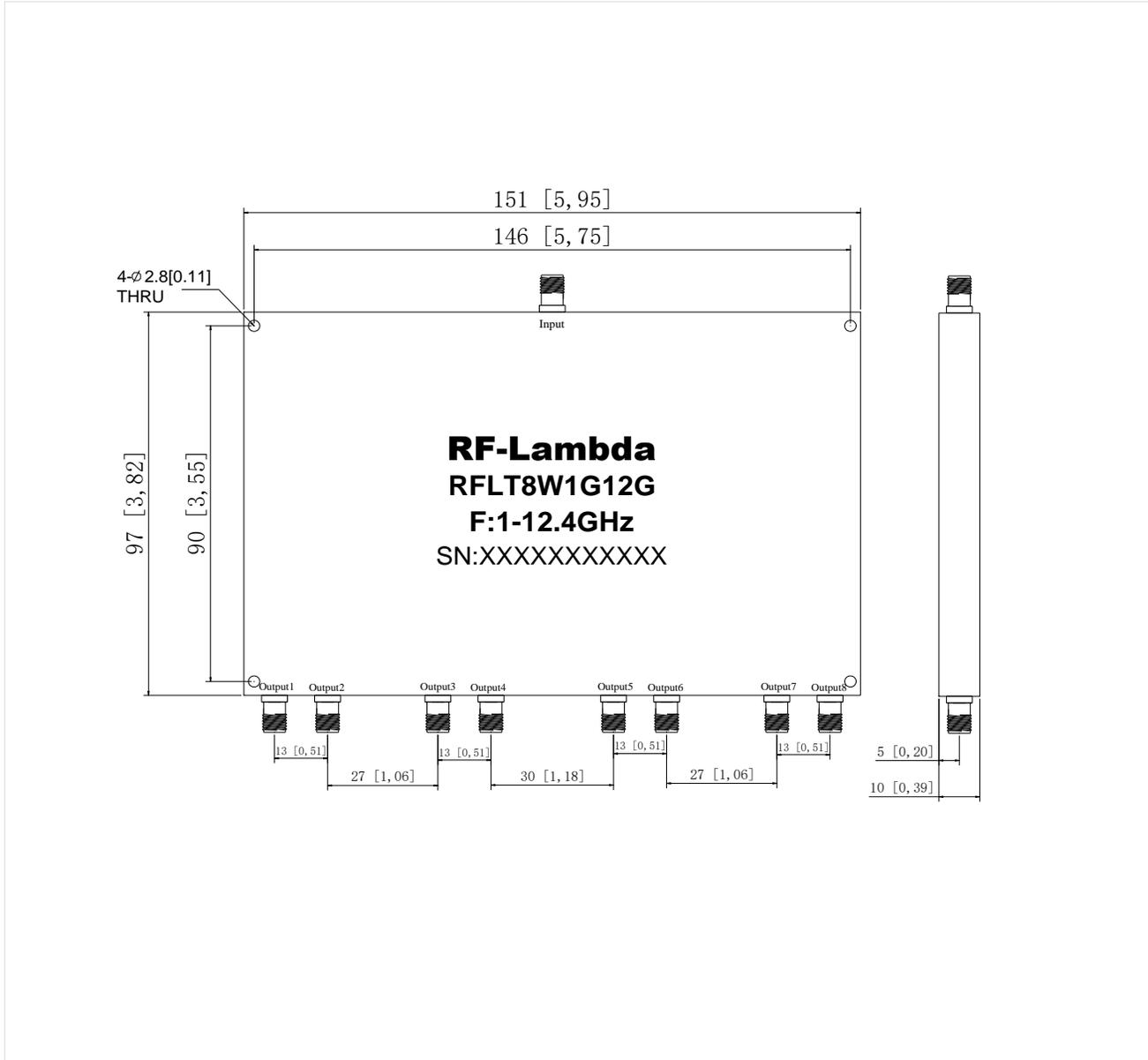
LEADER OF RF BROADBAND SOLUTIONS

## RFLT8W1G12G

### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.25$  [0.01]



Coaxial 30W 0° 8-Way Power Divider 1 -- 12.4GHz

### Important Notice

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