



### Coaxial 20W 0° 8-Way Power Divider 6-40GHz



#### Features

- High power handling up to 20W
- 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.	Min.	Typ.	Max.	Units
Frequency Range	6		18	18		40	40		43.5	GHz
Nominal Splitter Loss		9			9			9		dB
Insertion Loss		1.5	2.0		2.2	2.5		3.2		dB
Isolation	15	17		16	18			16		dB
Input VSWR		1.6	2.2		1.8	2.0		2.0		: 1
Output VSWR		1.5	1.6		1.4	1.6		1.6		: 1
Amplitude Imbalance		±0.4	±0.5		±0.4	±0.5		±0.5		dB
Phase Imbalance		±4	±5		±5	±6		±6		deg
Power Rating	Forward Power	20								W
	Reverse Power	0.5								W
	Peak Power	200								W
Impedance	50								Ohms	
Weight	4.94								ounces	
Input / Output Connectors	2.92mm-Female									
Material	Aluminum									
Finish	Blue Paint									

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*Environmental Specifications and Test Standards*

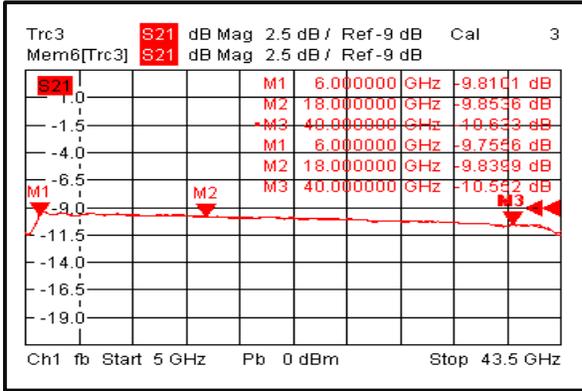
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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)

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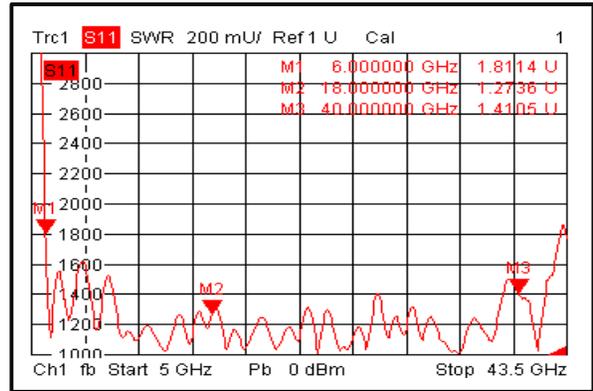


**Typical Performance Plots**

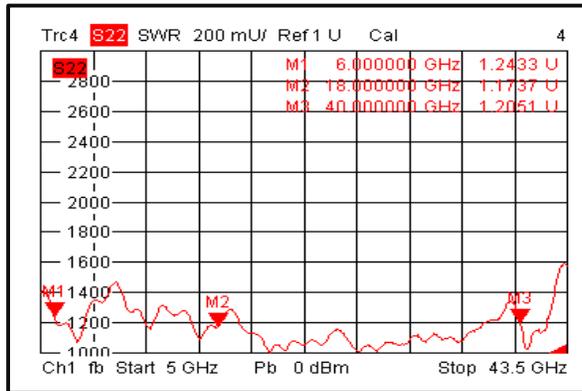
**Loss & Amplitude Imbalance**



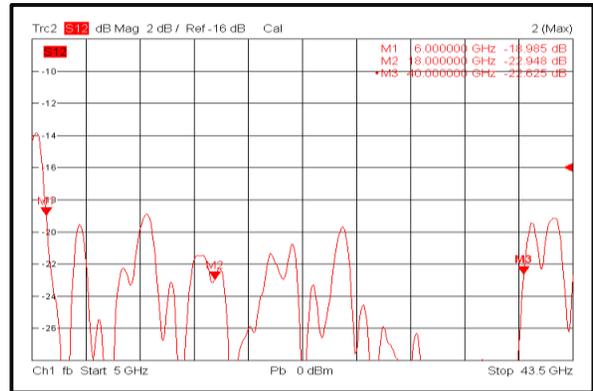
**Input VSWR**



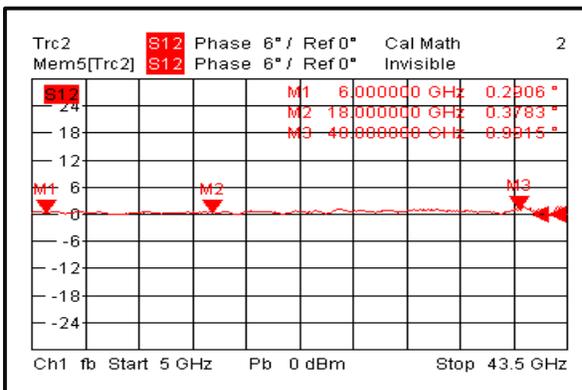
**Output VSWR**



**Isolation**



**Phase Imbalance**



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# RF-LAMBDA

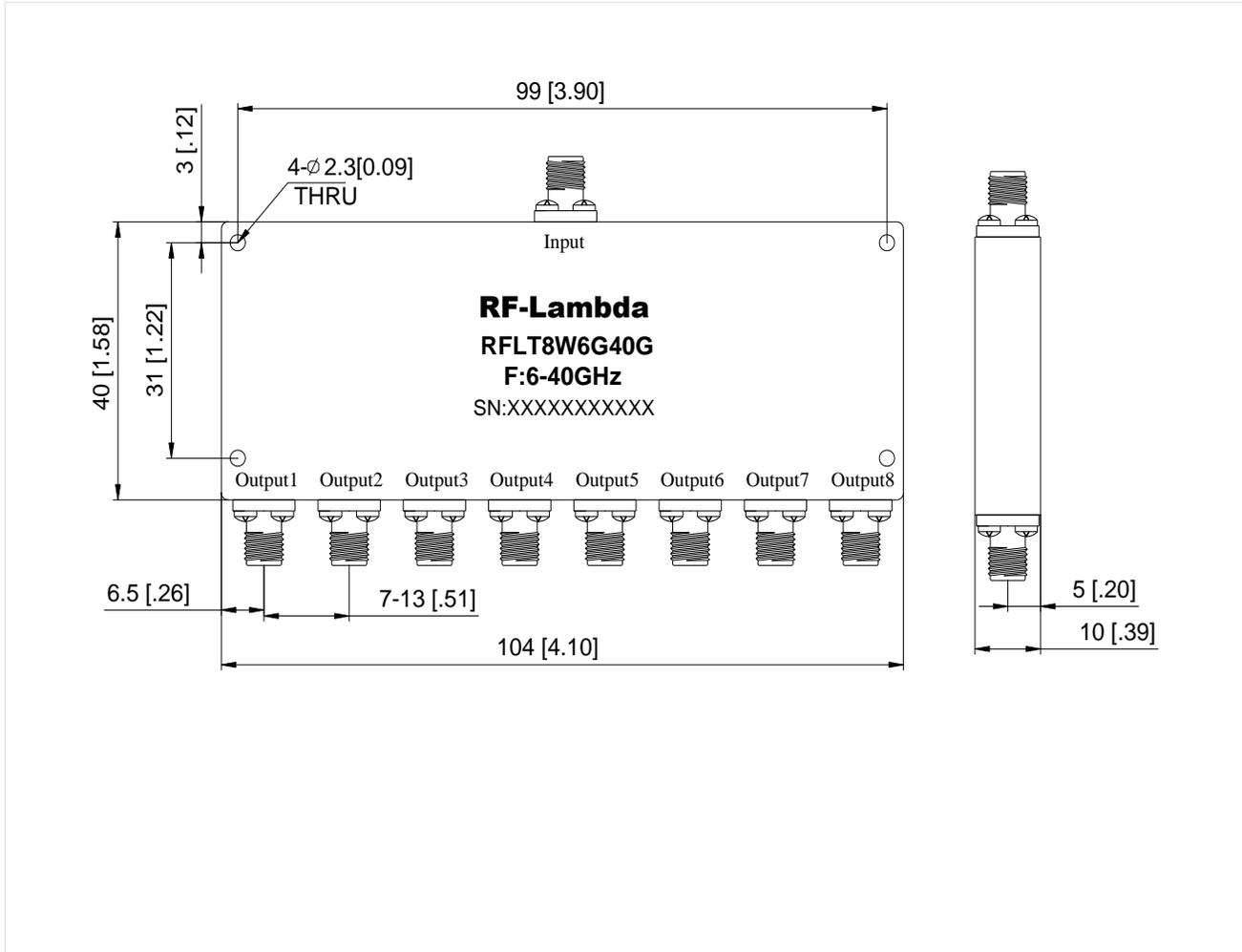
LEADER OF RF BROADBAND SOLUTIONS

## RFLT8W6G40G

### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.25$  [0.01]



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