



### Coaxial 1W 0° 8-Way Power Divider DC - 40GHz



#### Features

- High power handling up to 1W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

#### Typical Applications

- Aerospace and military applications
- Test & Measurement
- LMDS multi-carrier operation

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

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	DC		26.5	26.5		40	GHz
Insertion Loss		21	23		21.5	23	dB
Isolation		11			12		dB
Input VSWR		1.3	1.5		1.4	1.6	: 1
Output VSWR		2.2	2.5		2.0	2.5	: 1
Amplitude Imbalance		±0.6	±0.8		±0.8	±1.0	dB
Phase Imbalance		±8	±10		±10	±12	deg
Power Rating	Forward Power	1					W
	Peak Power	10					W
Impedance	50					Ohms	
Weight	4.23					ounces	
Input / Output Connectors	2.92mm-Female						
Material	Aluminum						
Finish	Nickel Plated						

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*Environmental Specifications and Test Standards*

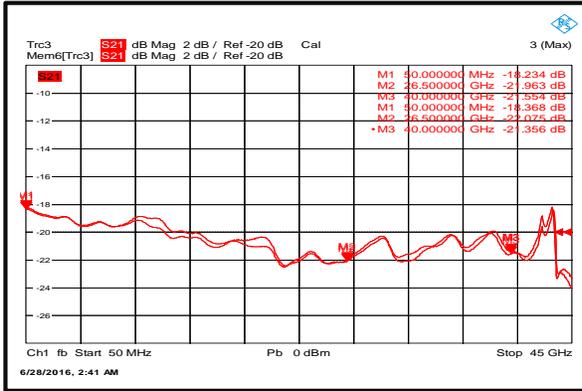
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72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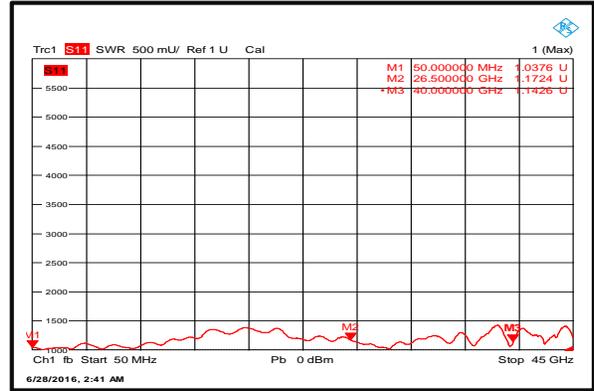


### Typical Performance Plots

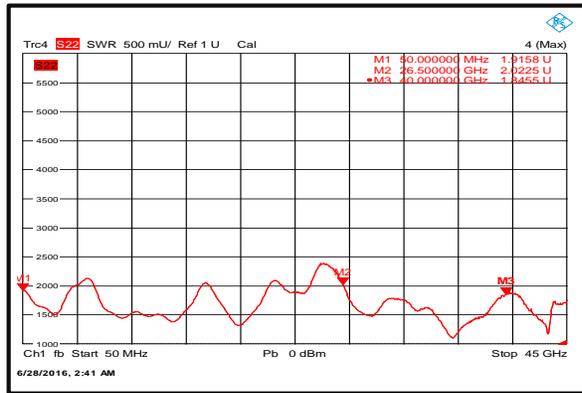
#### Loss & Amplitude Imbalance



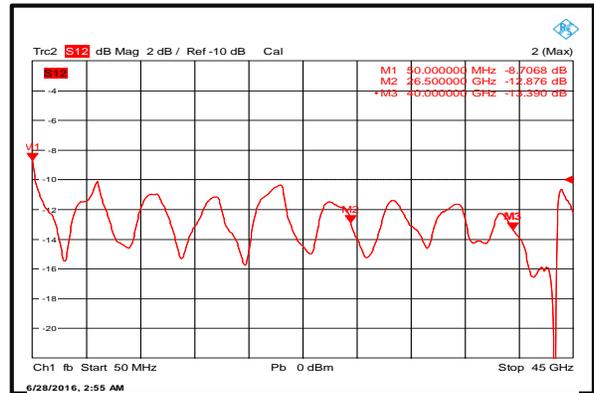
#### Input VSWR



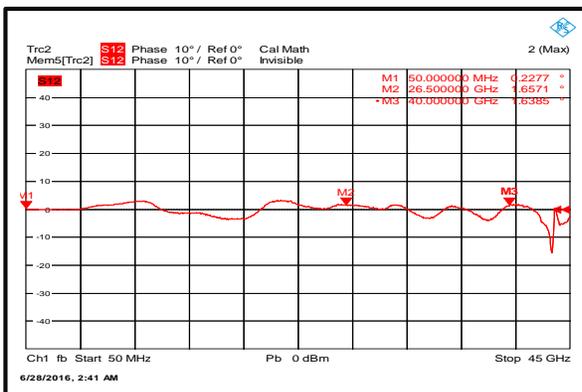
#### Output VSWR



#### Isolation



#### Phase Imbalance





# RF-LAMBDA

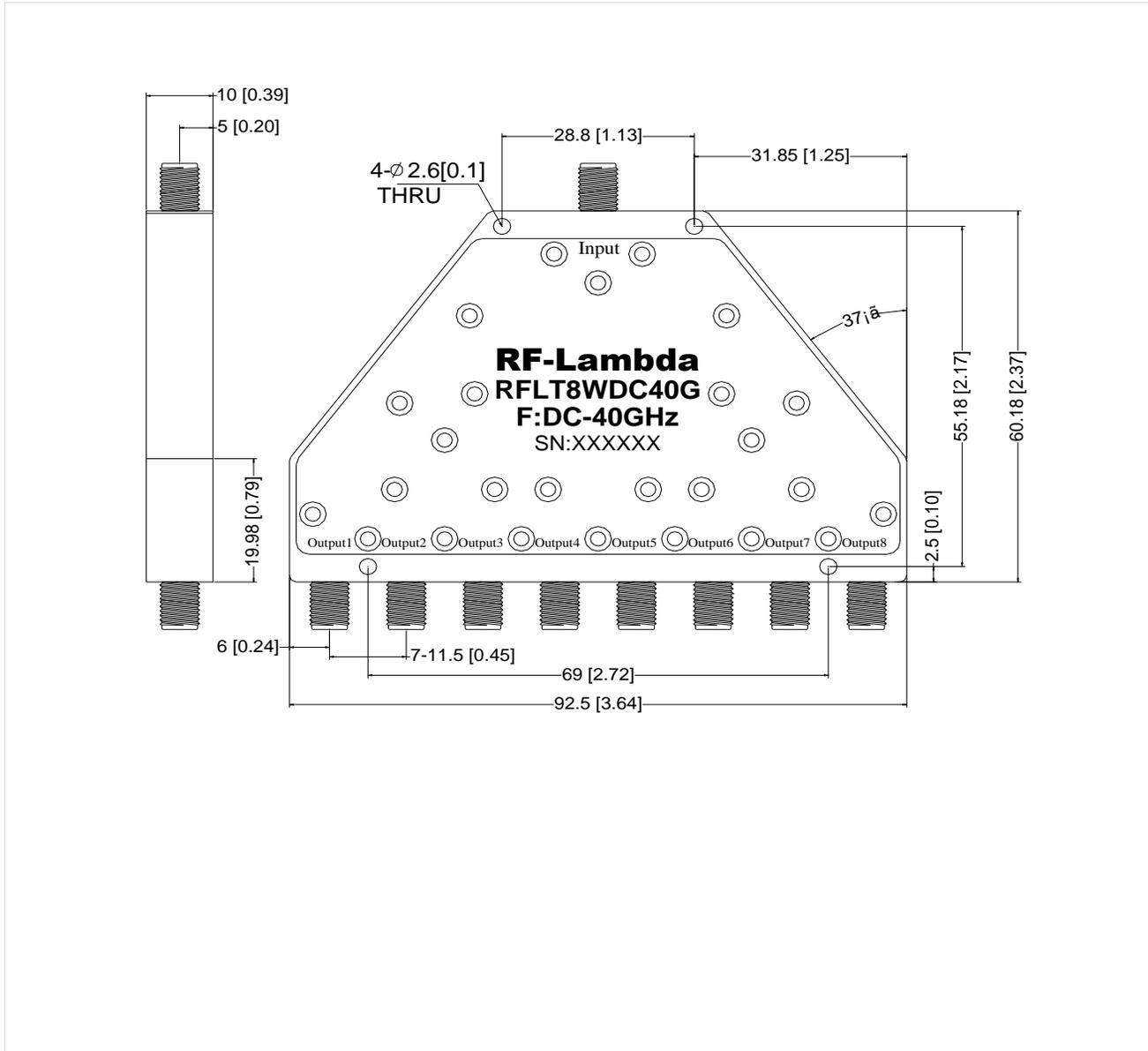
LEADER OF RF BROADBAND SOLUTIONS

## RFLT8WDC40G

### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.2$  [0.008]



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