



Coaxial 0.5W 0° 2-Way Power Divider DC - 67GHz



Features

- High power handling up to 0.5W
- 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		DC		18	18		67	GHz
Insertion Loss			6.8	7.0		7.3	7.8	dB
Isolation			12			14		dB
Input VSWR			1.4	1.8		1.4	1.8	:1
Output VSWR			1.9	2.2		2.5	3.0	:1
Amplitude Imbalance			0.2	0.4		0.4	0.6	dB
Phase Imbalance			± 2	± 4		± 4	± 6	deg
Power Rating	Forward Power	0.5						W
	Peak Power	5						W
Impedance		50						Ohms
Weight		0.71						Ounces
Operating Temperature		-45 to +85						$^\circ\text{C}$
Input / Output Connectors		1.85mm - Female						
Material		Aluminum						
Finishing		Gold Plating						

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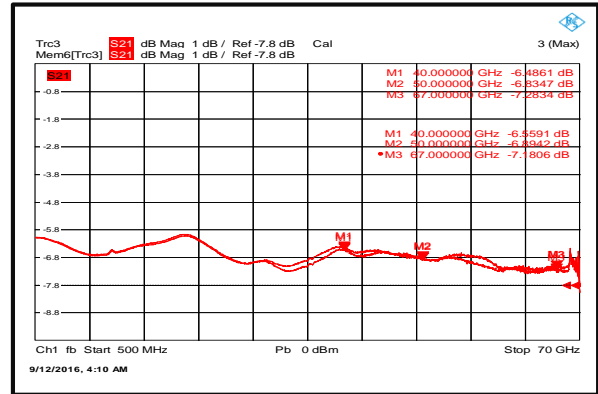


Environmental Specifications

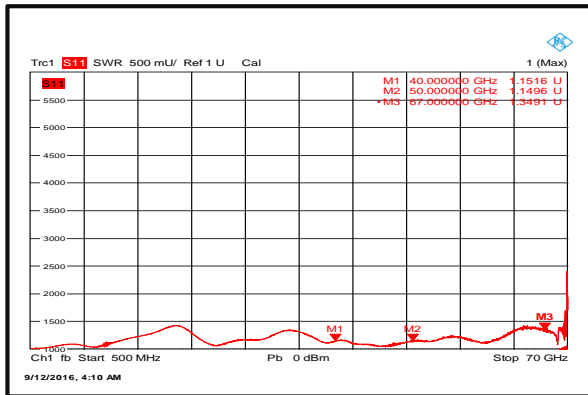
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

Typical Performance Plots

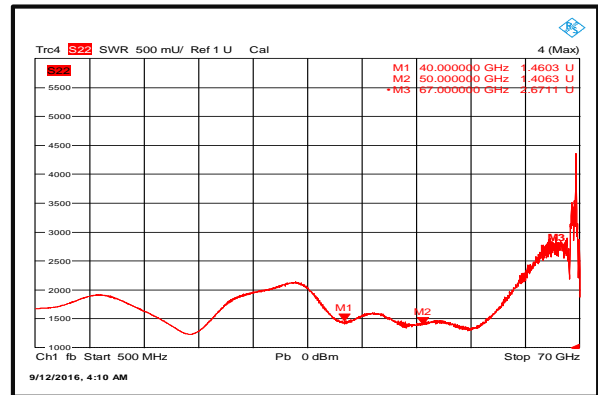
Loss & Amplitude Imbalance



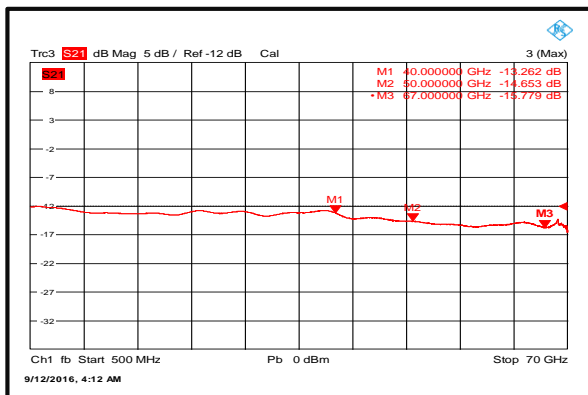
Input VSWR



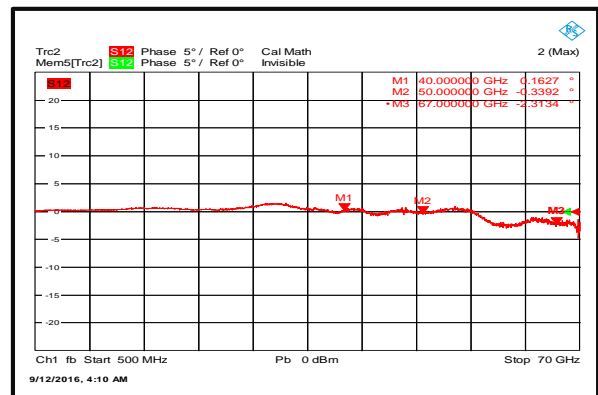
Output VSWR



Isolation



Phase Imbalance



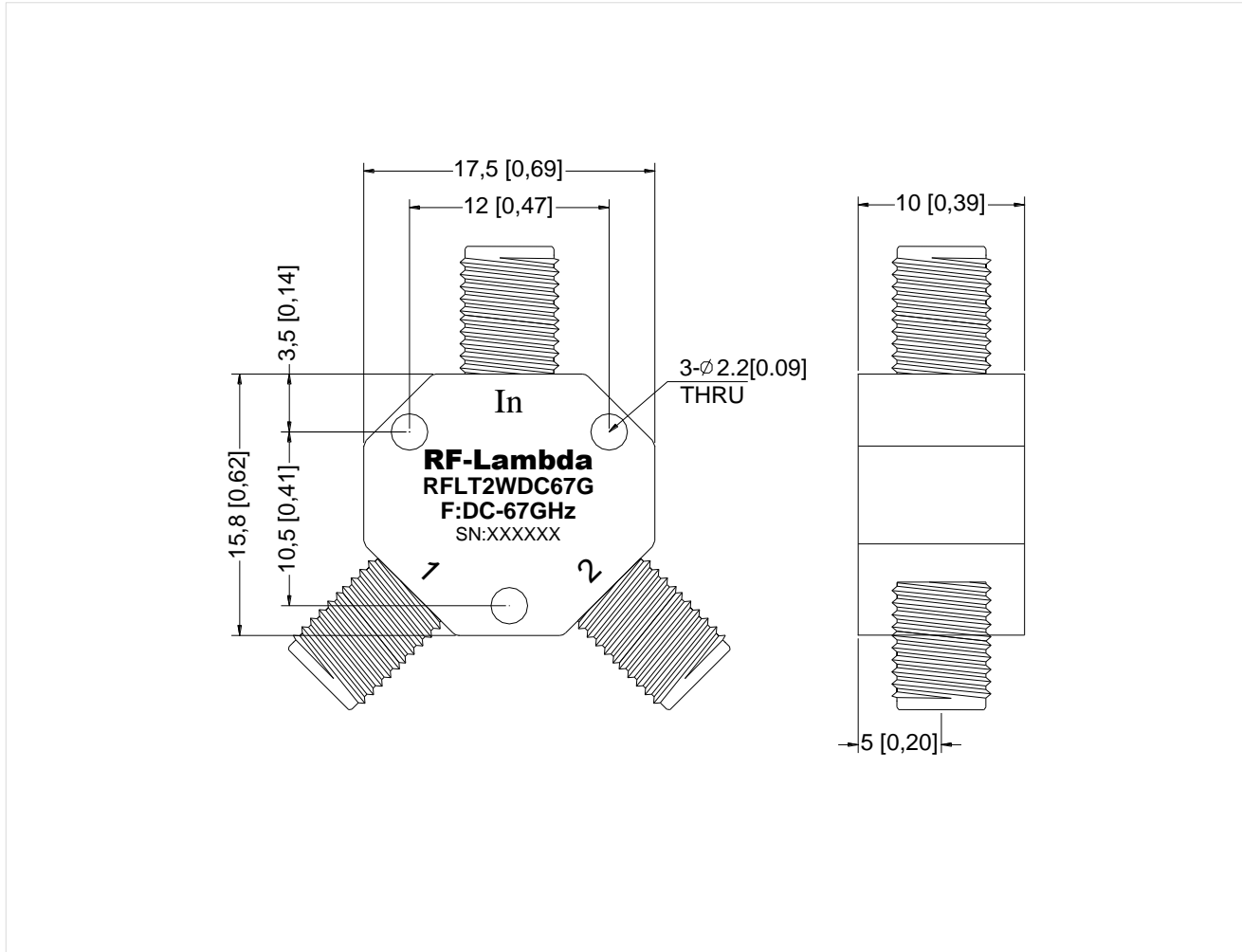
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.15 [0.006]



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