



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLT8W0500MN

Coaxial 10W 0° 8-Way Power Divider 5-500MHz



Features

- High power handling up to 10W
- 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, $T_A=25^\circ\text{C}$

Parameters		Min.	Typ.	Max.	Units
Frequency Range		5		500	MHz
Nominal Splitter Loss			9		dB
Insertion Loss			1.8	2.0	dB
Isolation		20	24		dB
Input VSWR			1.3	1.5	:1
Output VSWR			1.25	1.4	:1
Amplitude Imbalance				± 0.3	dB
Phase Imbalance				± 2	deg
Power Rating	Forward Power	10			W
	Reverse Power	0.5			W
	Peak Power	100			W
Impedance		50			Ohms
Weight		16.23			ounces
Input / Output Connectors		N-Female			
Material		Aluminum			
Finish		Gray 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)



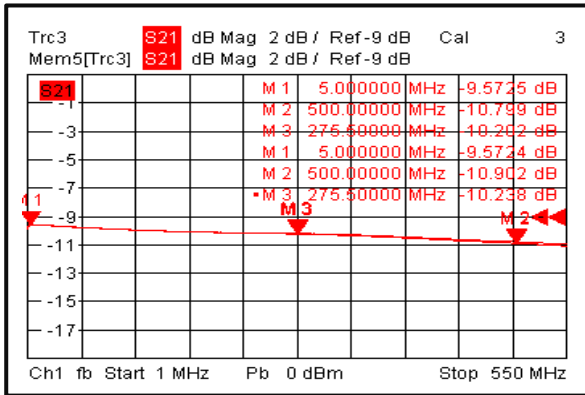
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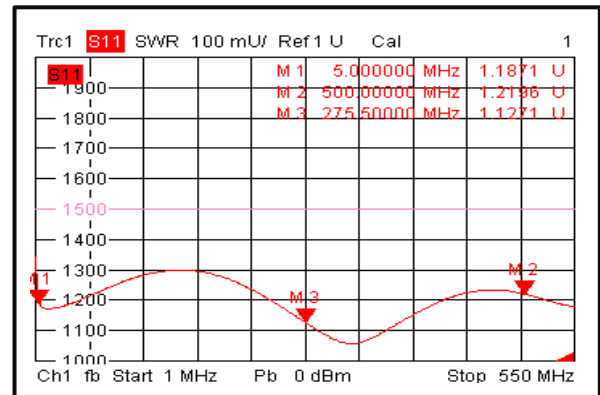
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Typical Performance Plots

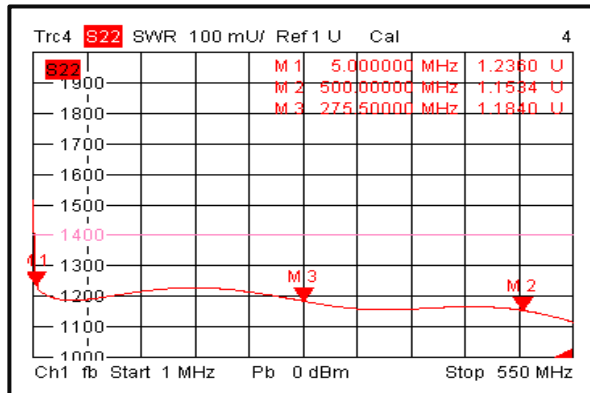
Loss & Amplitude Imbalance



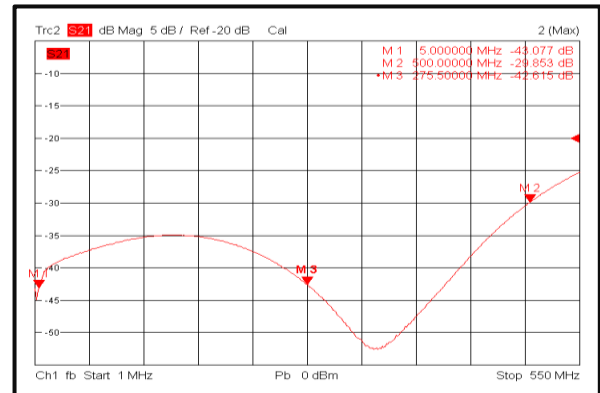
Input VSWR



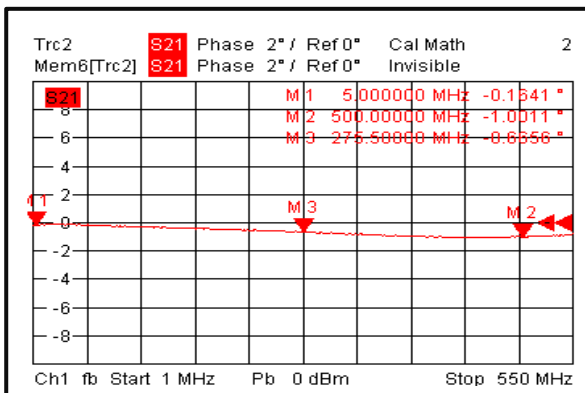
Output VSWR



Isolation



Phase Imbalance



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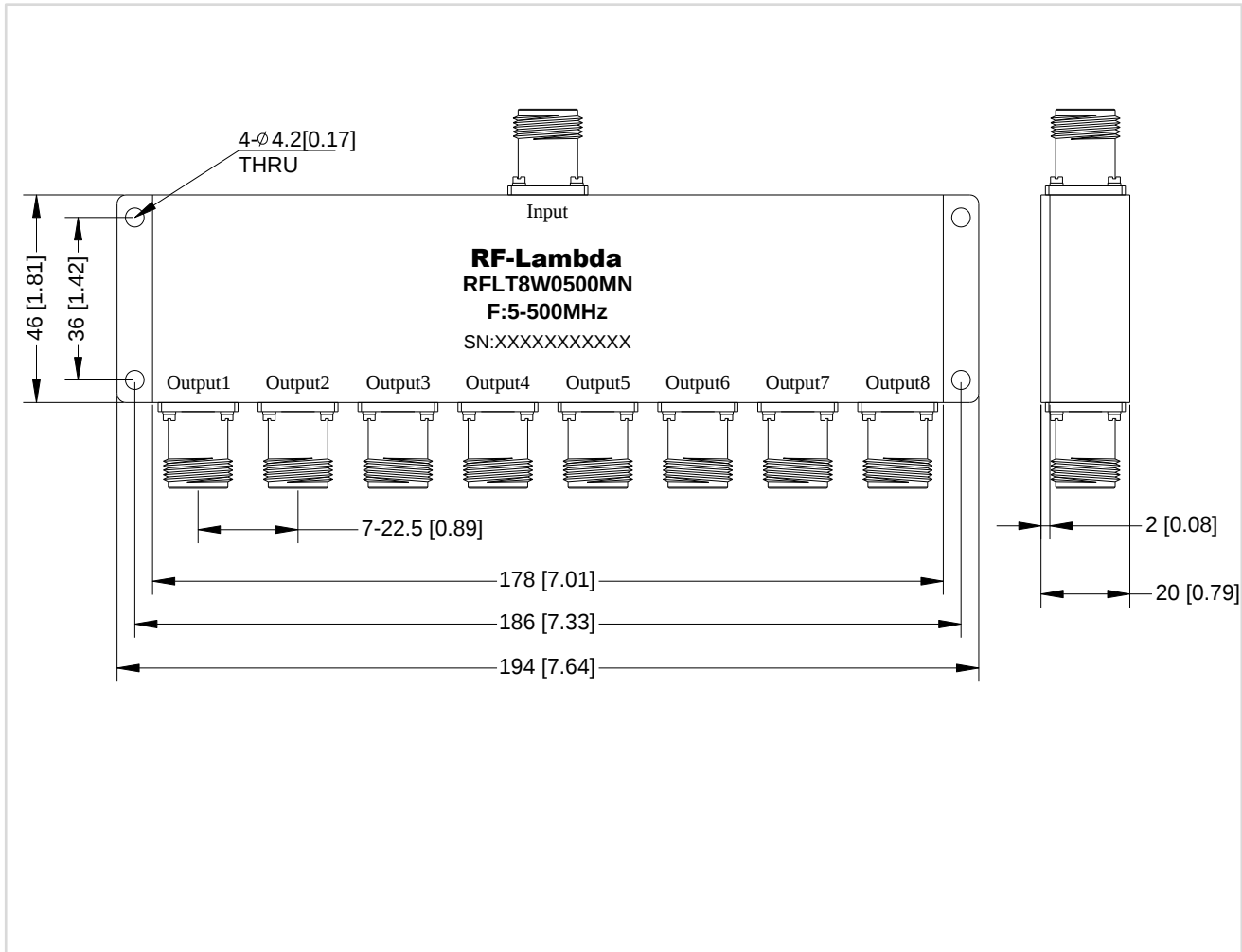
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.3 [0.012]



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