

Coaxial 10W 0° 4-Way Power Divider 10-500MHz



Features

- High power handling up to 10W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Typical Applications

- Aerospace and Military Applications
- Wireless Infrastructure
- Test and Measurement

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

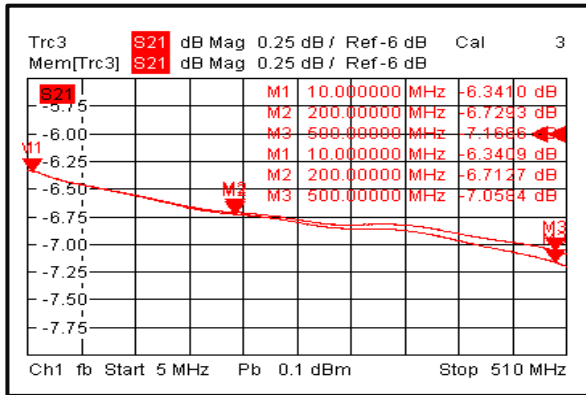
Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		0.01		0.2	0.2		0.5	GHz
Nominal Splitter Loss			6			6		dB
Insertion Loss			0.7	0.8		1.2	1.3	dB
Isolation		20	22		20	22		dB
Input VSWR			1.3	1.4		1.3	1.4	: 1
Output VSWR			1.3	1.4		1.3	1.4	: 1
Amplitude Imbalance			± 0.15	± 0.25		± 0.2	± 0.3	dB
Phase Imbalance			± 1	± 2		± 1	± 2	deg
Power Rating	Forward Power	10						W
	Reverse Power	1						W
	Peak Power	100						W
Impedance		50						Ohms
Weight		8.5 Max.						ounces
Input / Output Connector		N-Female						
Material		Aluminum						
Finishing		Blue Paint						

Environmental Specifications and Test Standards

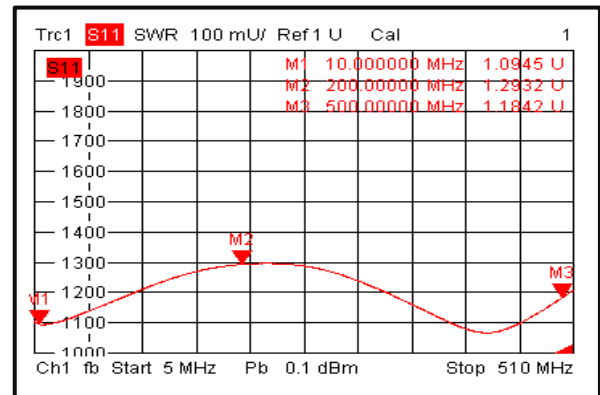
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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 (For Hermetically Sealed Units)

Typical Performance Plots

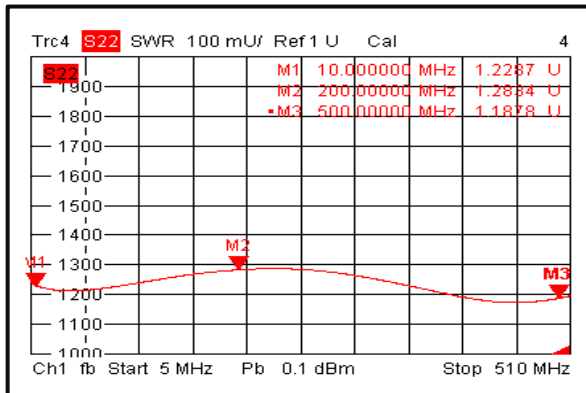
Loss & Amplitude Imbalance



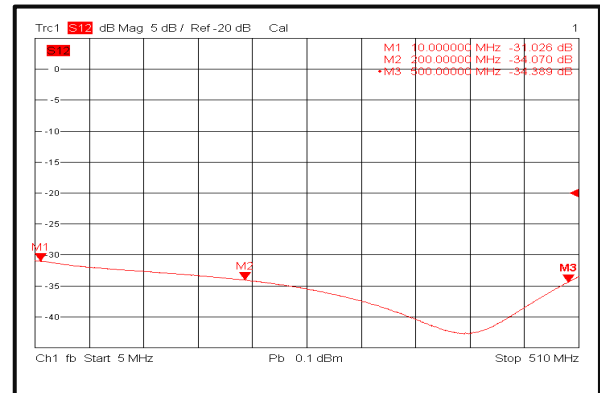
Input VSWR



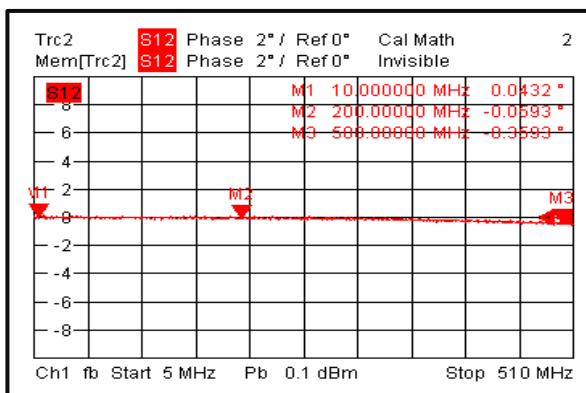
Output VSWR



Isolation



Phase Imbalance

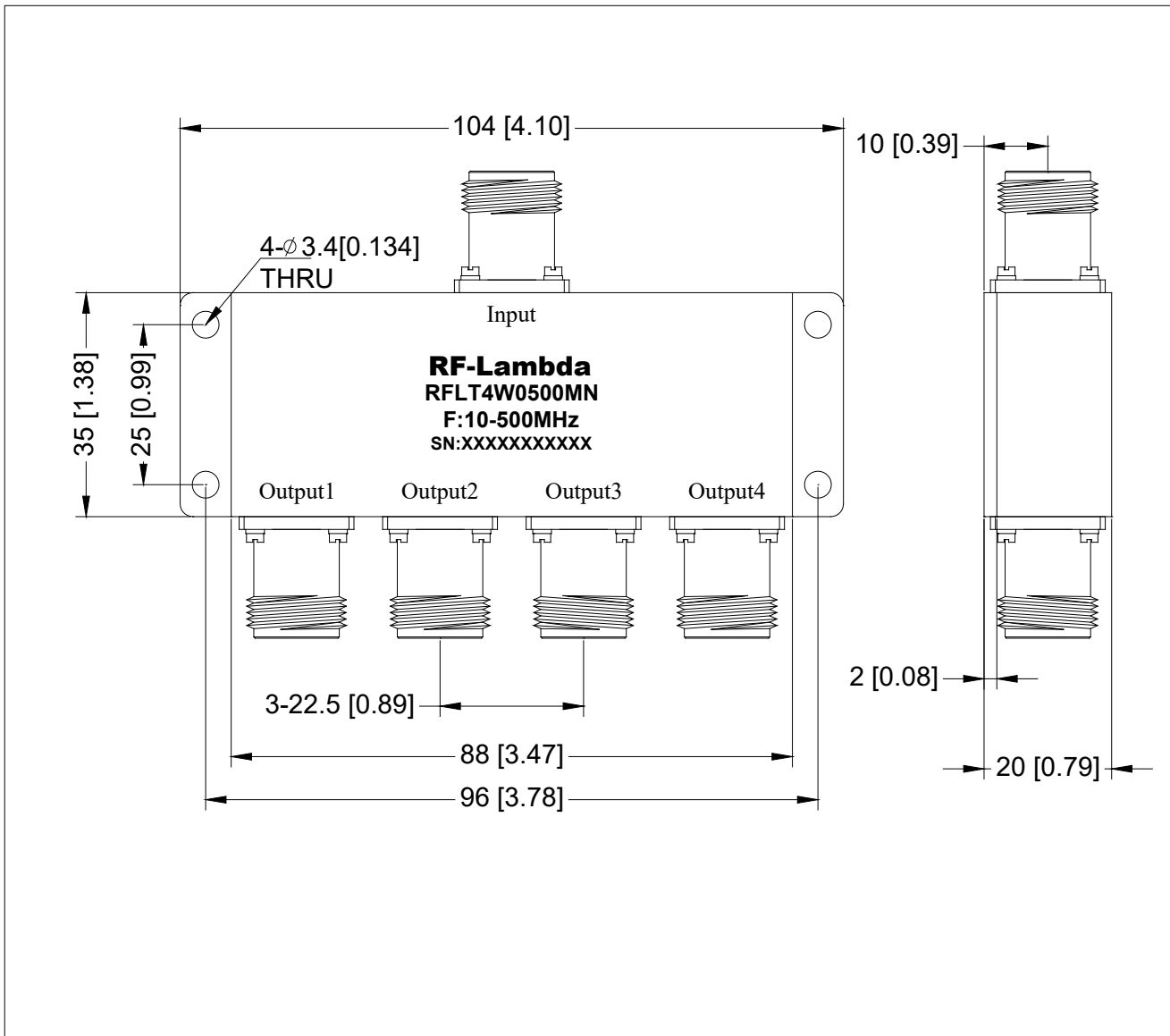


Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Hole Tolerances ± 0.2 [0.008]



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