

## Coaxial 20W 0° 2-Way Power Divider 0.5 - 18GHz



### Features

- High power handling up to 20W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

### Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless Infrastructure

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

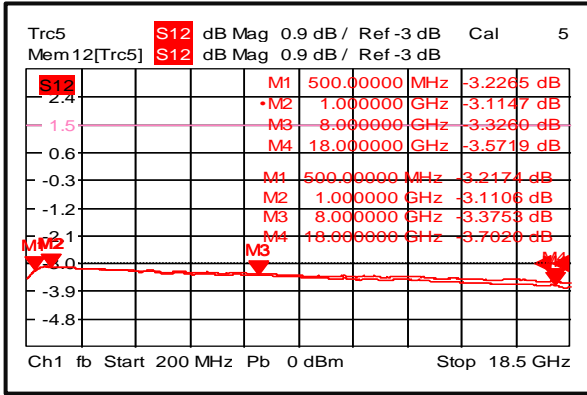
Parameter		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		0.5		1	1		8	8		18	GHz
Nominal Splitter Loss			3			3			3		dB
Insertion Loss			0.3	0.5		0.5	0.7		0.7	0.9	dB
Isolation		16	17		18	20		16	18		dB
Input VSWR			1.45	1.6		1.3	1.4		1.3	1.4	: 1
Output VSWR			1.3	1.4		1.3	1.4		1.3	1.4	: 1
Amplitude Imbalance			0.1	0.2		0.15	0.2		0.2	0.3	dB
Phase Imbalance			1	2		2	3		3	5	deg
Power Rating	Forward Power	20									W
	Reverse Power	1									W
	Peak Power	200									W
Impedance		50									Ohms
Weight		4.2 Max.									ounce
Input / Output Connectors		SMA-Female									
Material		Aluminum									
Finish		Blue Paint									

**Environmental Specifications and Test Standards**

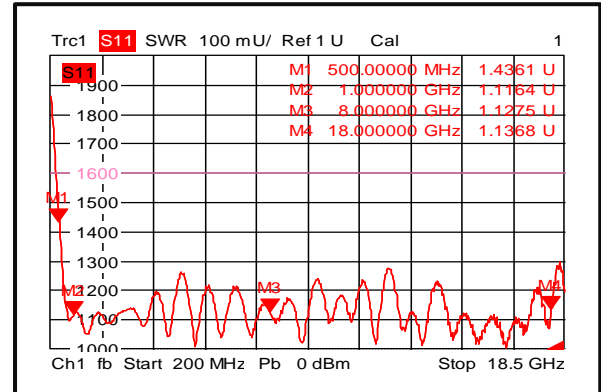
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours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

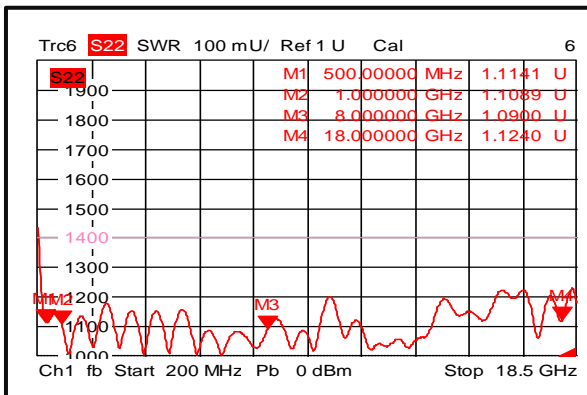
**Loss & Amplitude Imbalance**



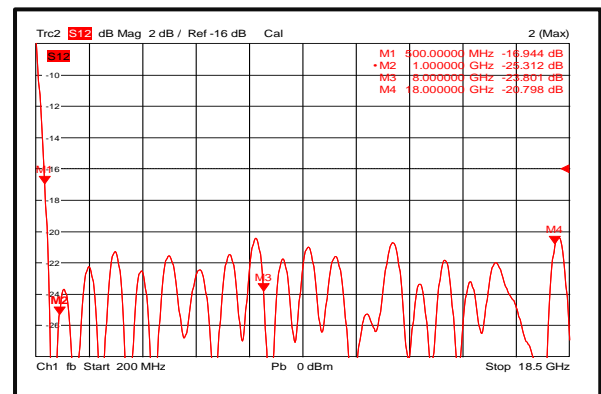
**Input VSWR**



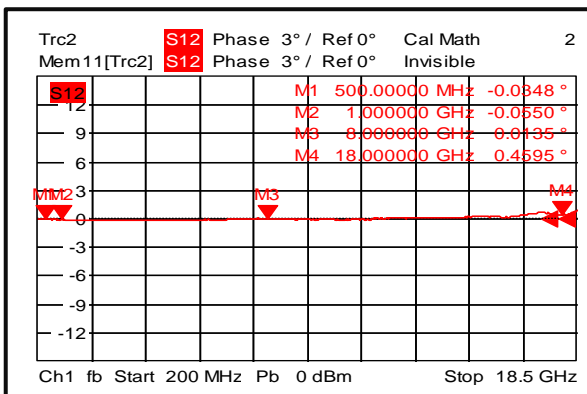
**Output VSWR**



**Isolation**



**Phase Imbalance**



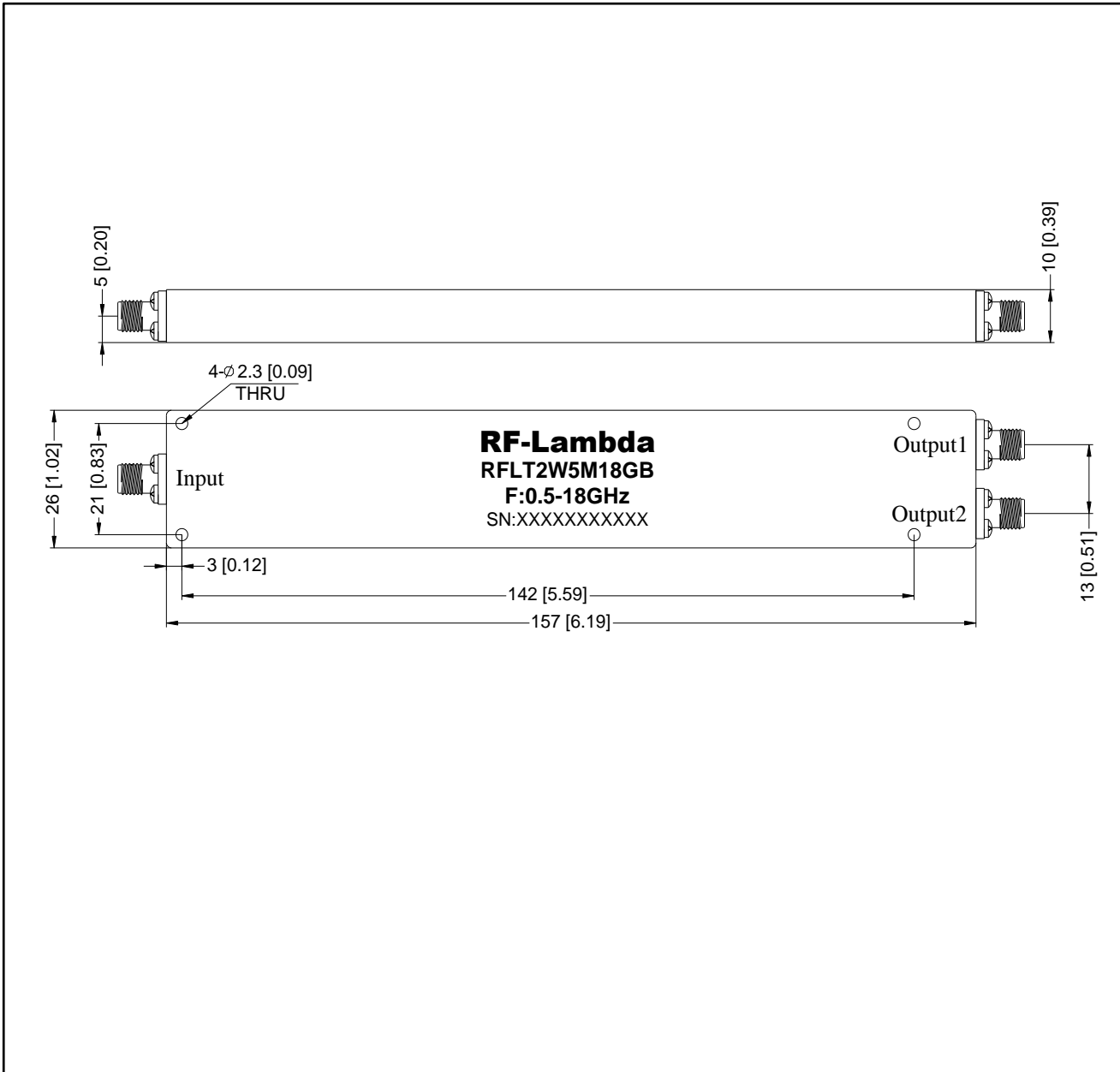
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**Outline Drawing:**

All Dimensions in mm [inches]

Outline Tolerances  $\pm 0.5$  [0.02]

Mounting Holes Tolerances  $\pm 0.2$  [0.008]



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