

Hermetically Sealed Coaxial 10W 0° 2-Way Power Divider 0.005-2GHz



Features

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

Typical Applications

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

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

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		0.005		0.1	0.1		2	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.5	0.7		0.7	0.8	dB
Isolation		12	16		17	18		dB
Input VSWR			1.9	2.0		1.8	2.0	:1
Output VSWR			1.7	1.8		1.6	1.7	:1
Amplitude Imbalance			0.1	0.15		0.15	0.2	dB
Phase Imbalance			1	2		2	3	deg
Power Rating	Forward Power	10						W
	Reverse Power	1						W
	Peak Power	100 (10% Duty Cycle, 1 us Pulse Width)						W
Impedance		50						Ohms
Weight		1.3 Max.						Ounces
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Blue Paint						
Sealing		Hermetically Sealed (Laser Welded)						

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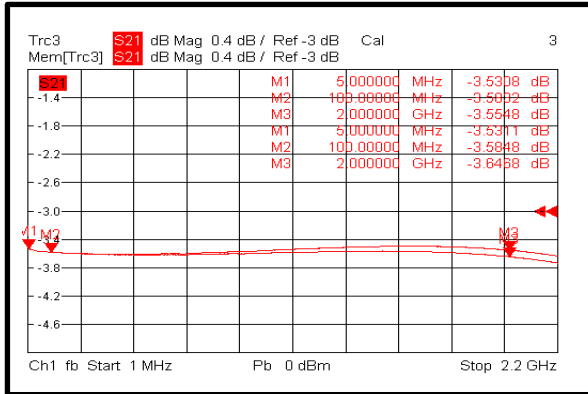
Environmental Specifications and Test Standards

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	MIL-STD-883

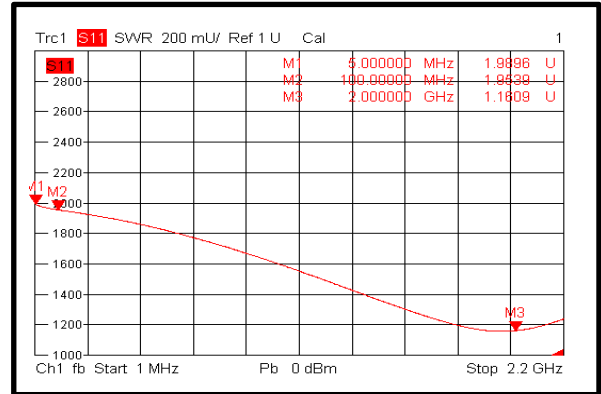
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Typical Performance Plots

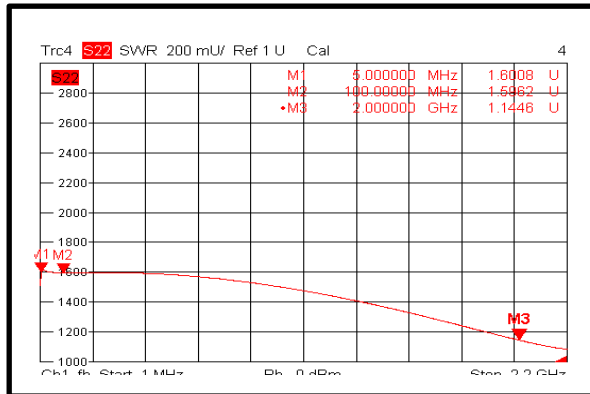
Loss & Amplitude Imbalance



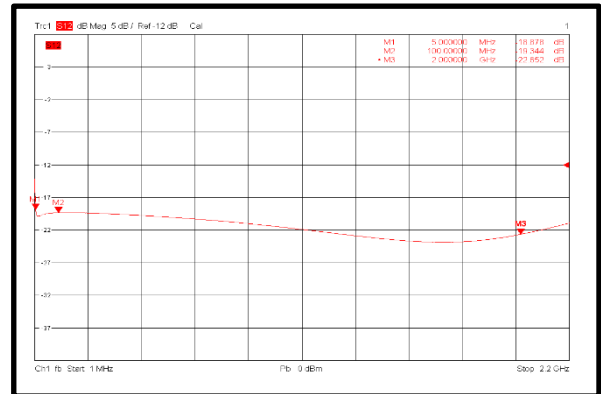
Input VSWR



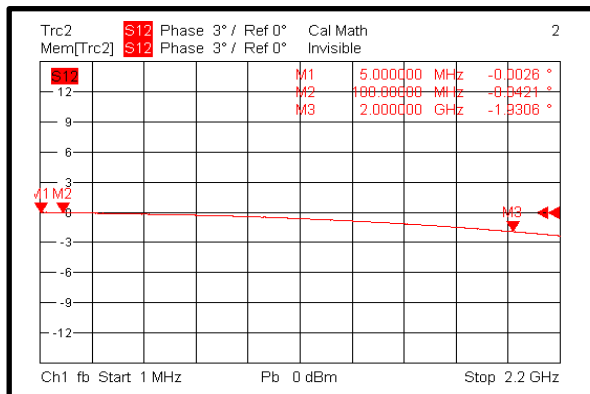
Output VSWR



Isolation



Phase Imbalance



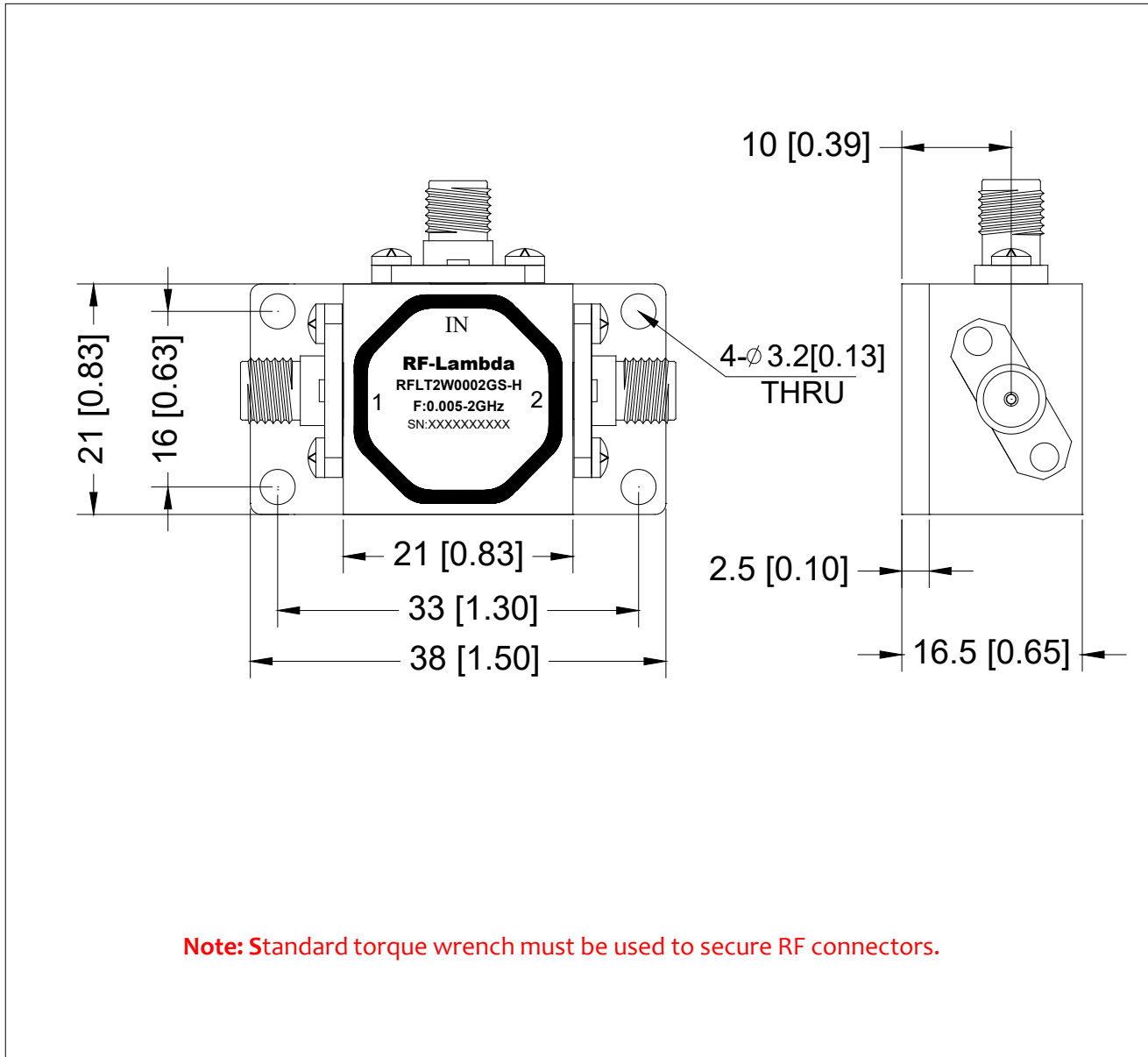
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Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Hole Tolerances ± 0.2 [0.008]



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