

Coaxial 30W 0° 3-Way Power Divider 8 - 18GHz



Features

- High power handling up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

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

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		8		18	GHz
Nominal Splitter Loss			4.8		dB
Insertion Loss			0.5	0.7	dB
Isolation		18	20		dB
Input VSWR			1.4	1.5	:1
Output VSWR			1.3	1.5	:1
Amplitude Imbalance			± 0.35	± 0.6	dB
Phase Imbalance			± 3	± 5	deg
Power Rating	Forward Power		30		W
	Reverse Power		1		W
	Peak Power		300		W
Impedance			50		Ohms
Weight			1.8 Max.		Ounces
Input / Output Connectors		SMA - Female			
Material		Aluminum			
Finish		Blue Paint			

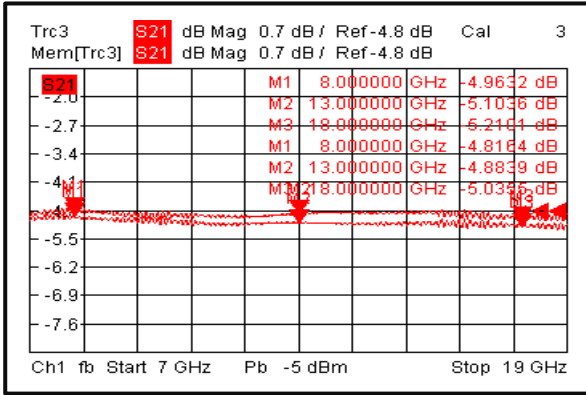
Environmental Specifications and Test Standards

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)

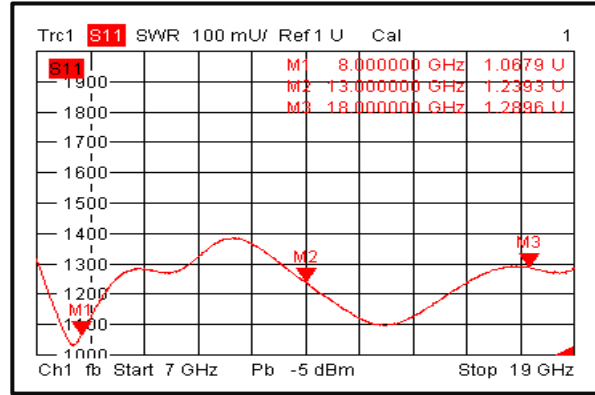
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Typical Performance Plots

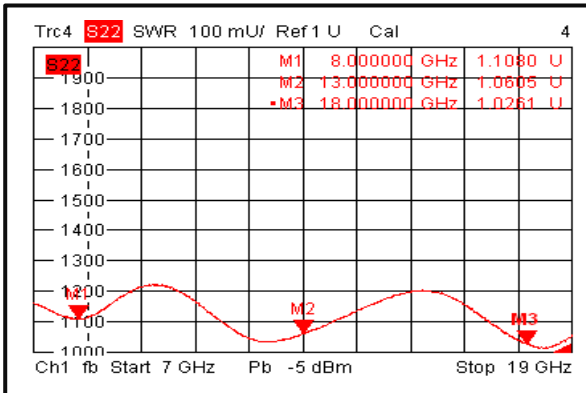
Loss & Amplitude Imbalance



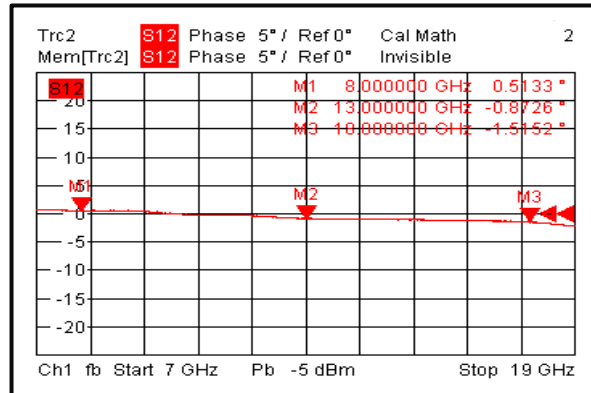
Input VSWR



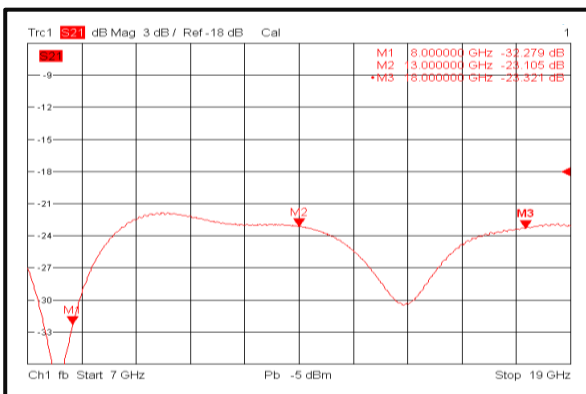
Output VSWR



Phase Imbalance



Isolation



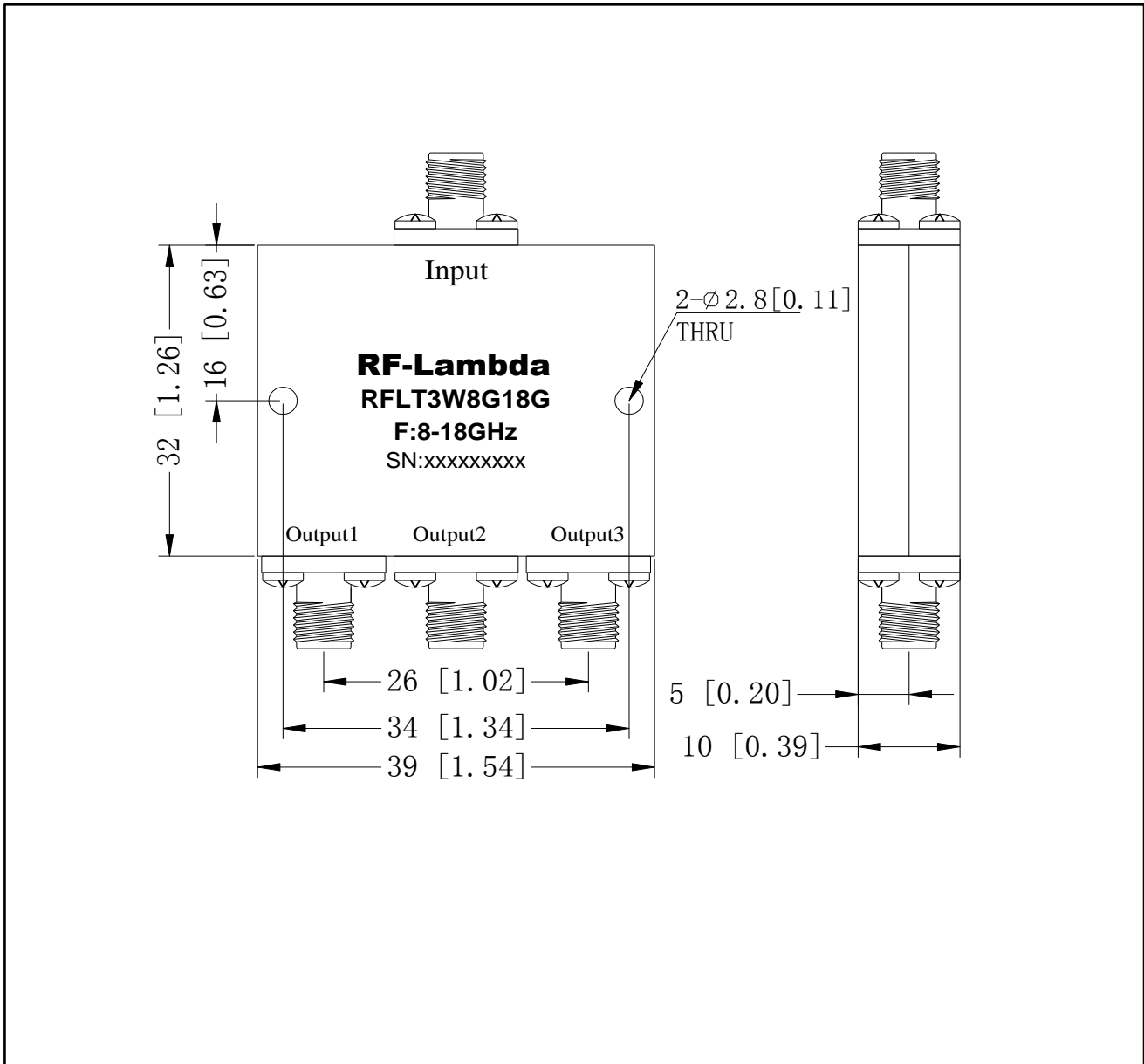
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Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.5 [0.02]

Mounting Holes Tolerances ± 0.2 [0.008]



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