

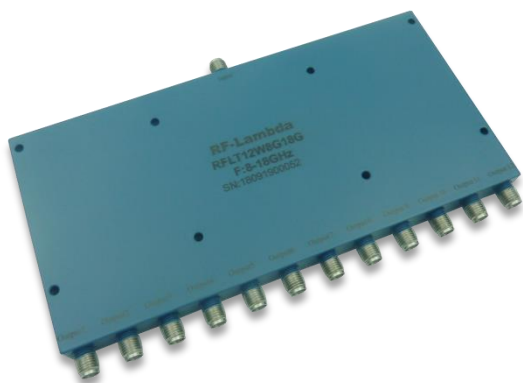


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLT12W8G18G

Coaxial 30W 0° 12-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, $T_A=25^\circ\text{C}$

Parameter		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		8		12	12		18	GHz
Nominal Splitter Loss			10.8			10.8		dB
Insertion Loss			1.0	1.5		1.5	2.0	dB
Isolation		16	19		16	18		dB
Input VSWR			1.6	1.8		1.6	1.8	: 1
Output VSWR			1.4	1.5		1.4	1.5	: 1
Amplitude Imbalance			± 0.4	± 0.6		± 0.6	± 0.8	dB
Phase Imbalance			± 4	± 6		± 8	± 10	deg
Power Rating	Forward Power	30						W
	Reverse Power	1						W
	Peak Power	300						W
Impedance		50						Ohms
Weight		9.17						ounces
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Blue 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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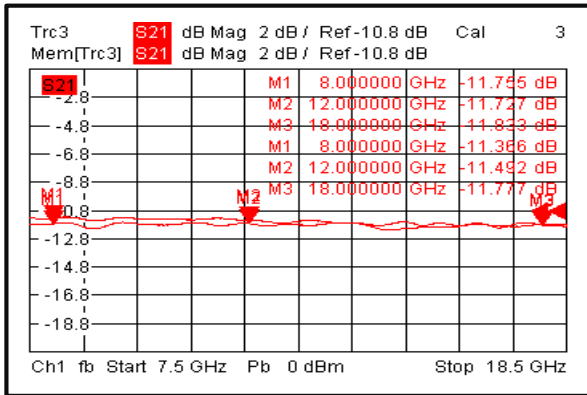
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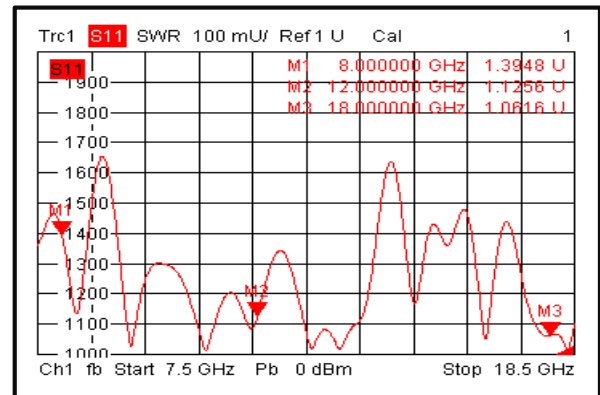
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Typical Performance Plots

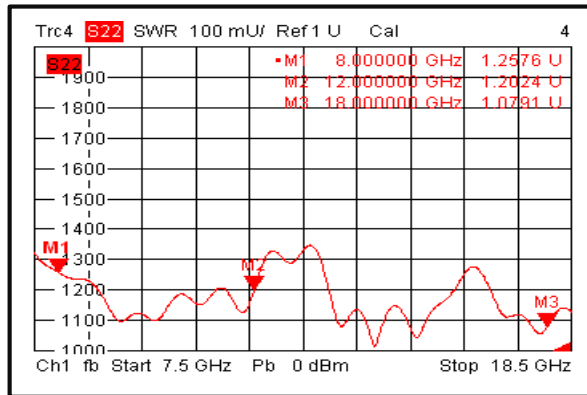
Loss & Amplitude Imbalance



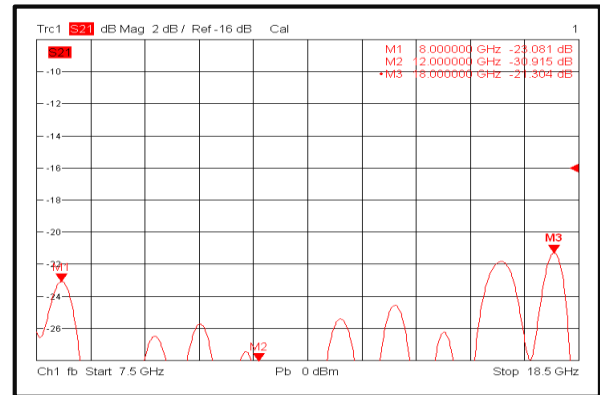
Input VSWR



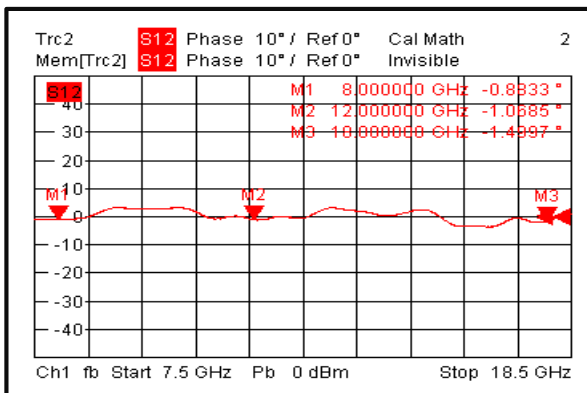
Output VSWR



Isolation



Phase Imbalance



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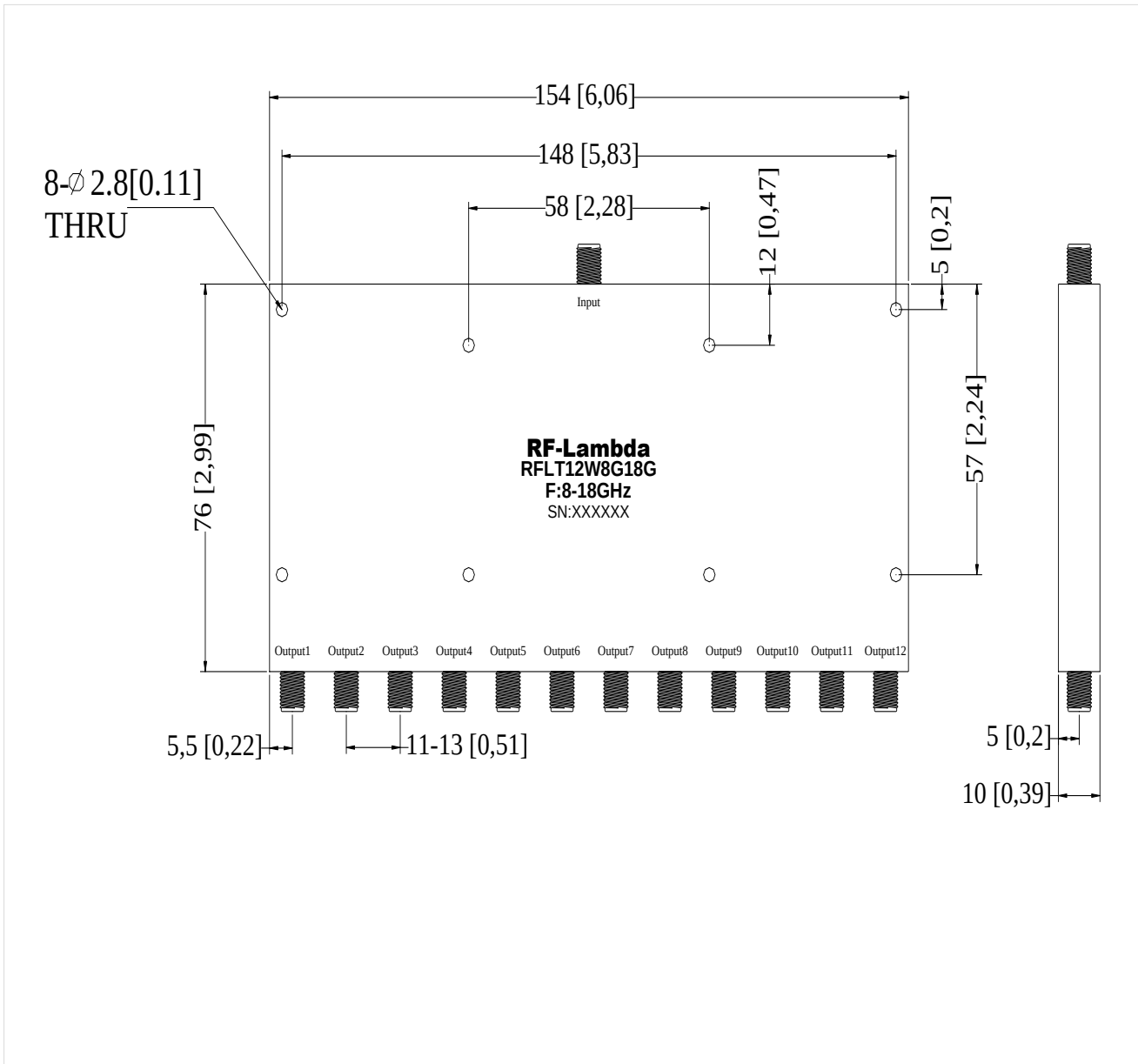
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.3 [0.012]



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