



# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFLT2W2G18GN

### Coaxial 30W 0°2-Way Power Divider 2-18GHz



#### 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
- LMDS multi-carrier operation

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

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		2		8	8		18	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.6	0.9		0.9	1.3	dB
Isolation		18	20		16	18		dB
Input VSWR			1.4	1.5		1.4	1.5	: 1
Output VSWR			1.3	1.4		1.3	1.4	: 1
Amplitude Imbalance			0.15	0.2		0.2	0.3	dB
Phase Imbalance			3	4		4	5	deg
Power Rating	Forward Power	30						W
	Reverse Power	1						W
	Peak Power	300						W
Impedance		50						Ohms
Weight		5.1						ounces
Input / Output Connectors		N-Female						
Material		Aluminum						
Finish		Gray 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	MIL-STD-883	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)



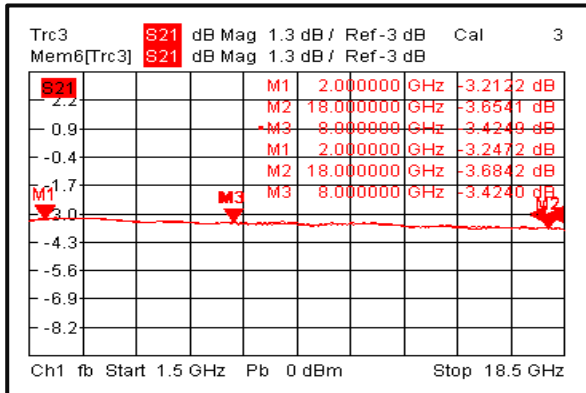
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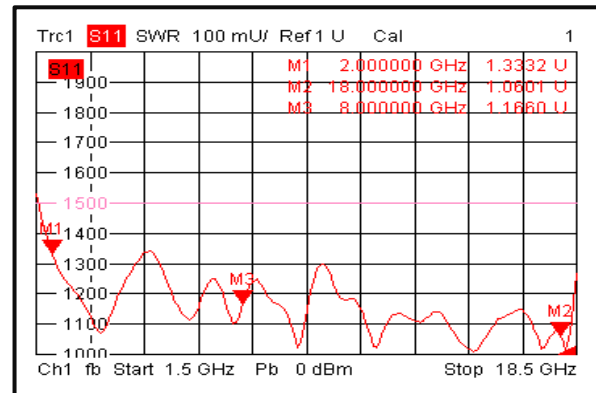
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### Typical Performance Plots

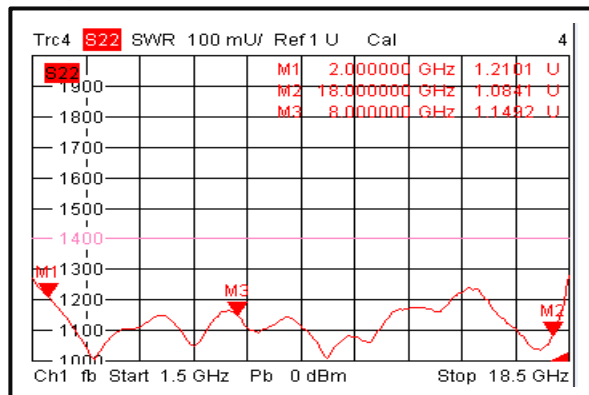
#### Loss & Amplitude Imbalance



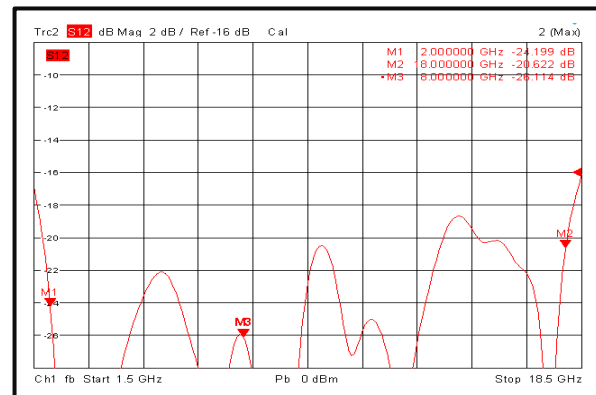
#### Input VSWR



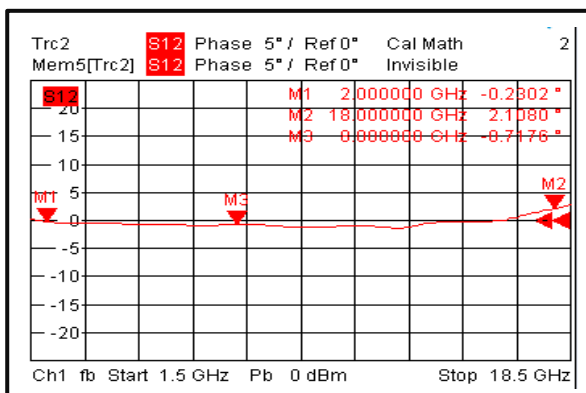
#### Output VSWR



#### Isolation



#### Phase Imbalance



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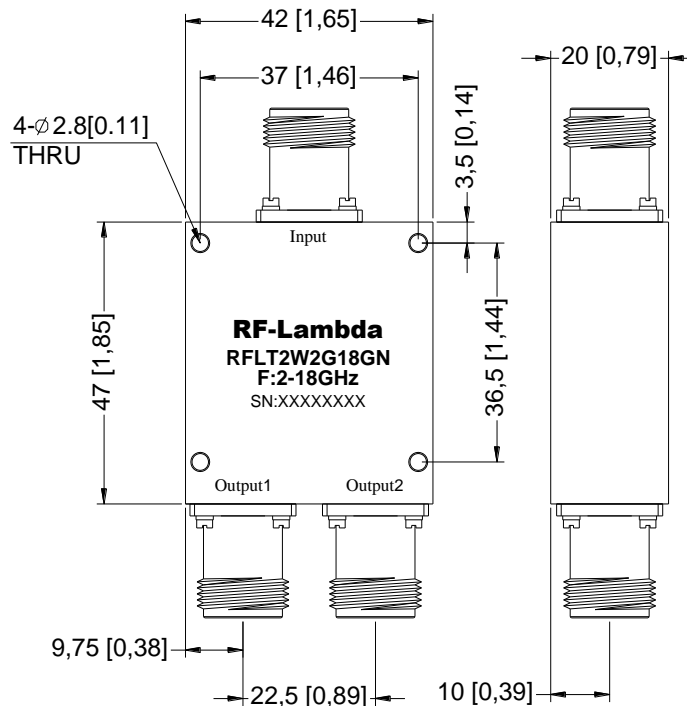
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## RFLT2W2G18GN

### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.2$  [0.01]



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### Important Notice

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