Coaxial 30W 0º 2-Way Power Divider 6-18GHz

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

Typical Applications
- Aerospace and military applications
- Test & Measurement
- Wireless Infrastructure
- 5G Communications
- Cellular Basestation

Electrical Specifications ,T_A=25℃

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		6		12	12		18	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.4	0.5		0.5	0.6	dB
Isolation		18	20		18	19		dB
Input VSWR			1.3	1.4		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 (10% Duty Cycle, 1 us Pulse Width)						W
Impedance		50						Ohms
Weight		0.8 Max.						OZ
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Blue Paint						

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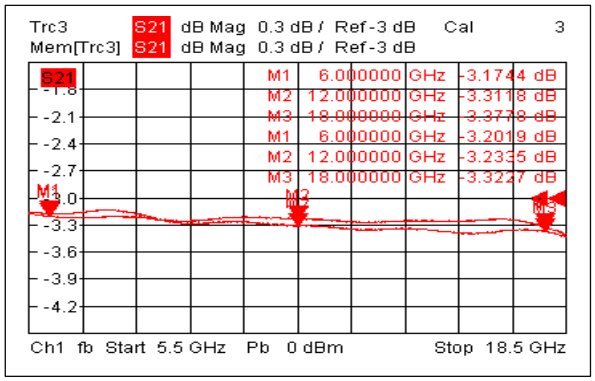
Environmental Specifications and Test Standards

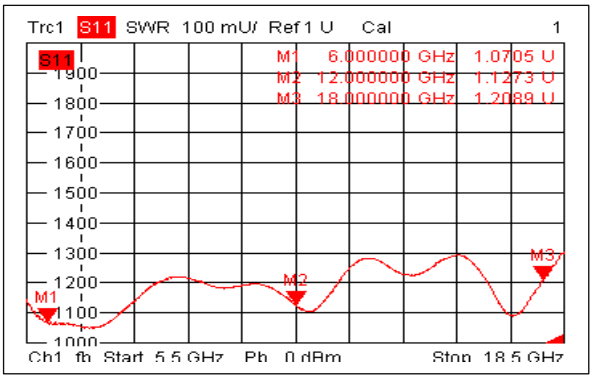
Parameter	Description
Operational Temperature	-40℃~+85℃ (Case Temperature)
Storage Temperature	-50℃~+105℃
Thermal Shock	-40℃ → +85℃ (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85℃ for 72 Hours
Shock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

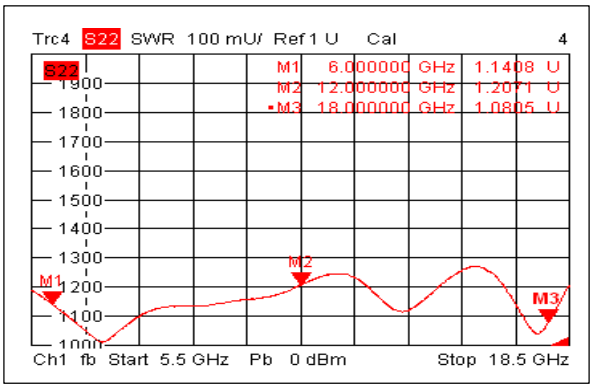
Loss & Amplitude Imbalance



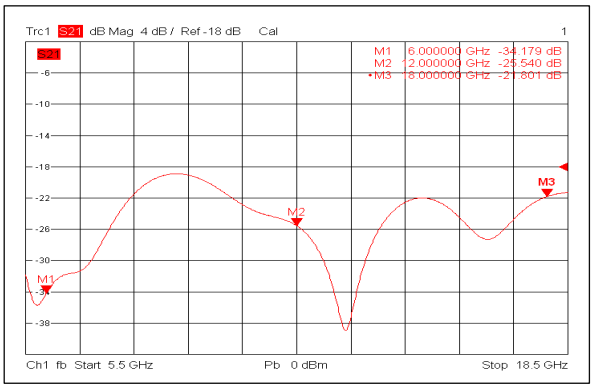
Input VSWR



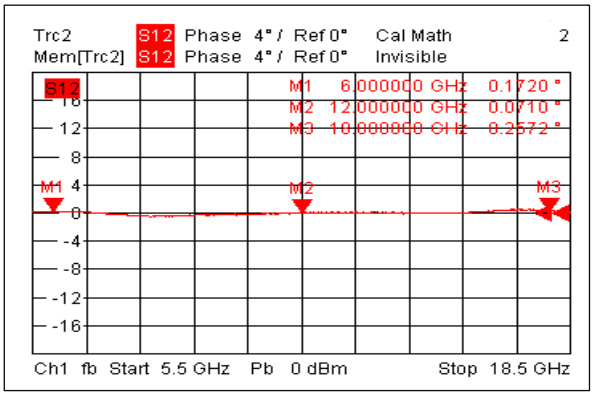
Output VSWR



Isolation



Phase Imbalance



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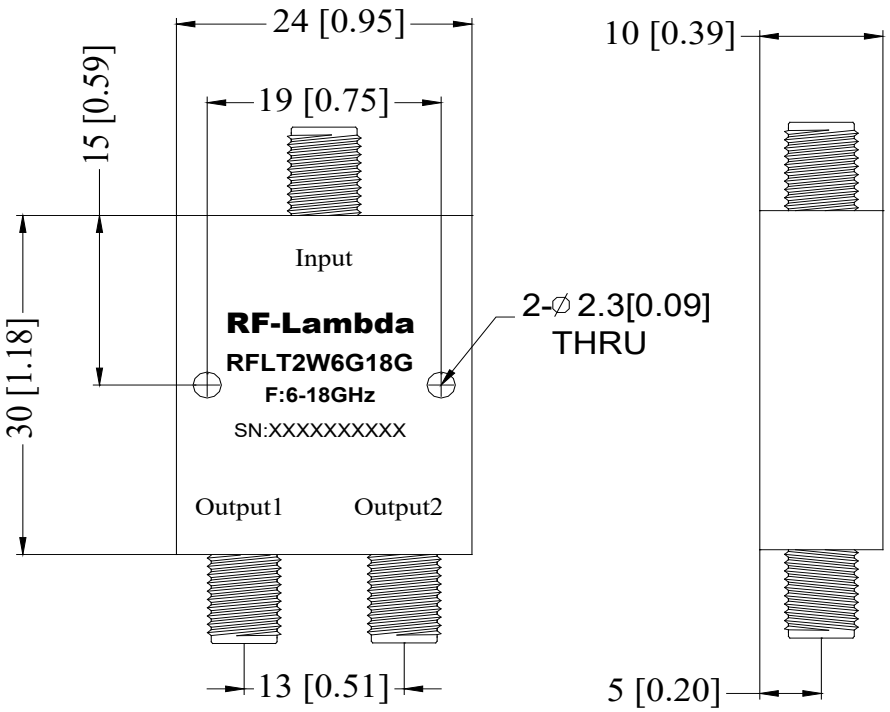
Outline Drawing

All Dimensions in mm [inches]
Outline Tolerances ±0.5[0.02]
Mounting Holes Tolerances ±0.2[0.008]



Note: Standard torque wrench must be used to secure RF connectors.

Important Notice