

## Coaxial 30W 0° 2-Way Power Divider 0.5GHz-6GHz



### Product Description

RFLT2W0006G is 2-Way power divider with a frequency range of 0.5 to 6GHz.

The forward power of this power divider is 30W. The Insertion Loss is 0.8dB with a typical isolation of 20dB.

The working temperature of this product is between - 40°C and + 85°C.

### Features

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

### Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

### Electrical Specifications, TA = +25°C

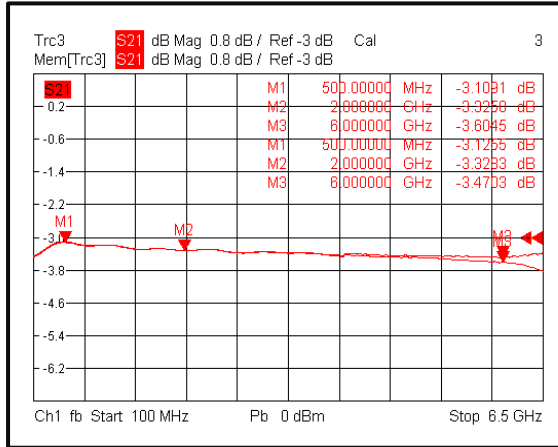
Parameter		Min	Typ	Max	Min	Typ	Max	Units
Frequency Range		0.5		2	2		6	GHz
Nominal Splitter Loss			3			3		dB
Insertion Loss			0.3	0.5		0.6	0.8	dB
Isolation		18	20		18	20		dB
Input VSWR			1.3	1.4		1.3	1.4	: 1
Output VSWR			1.2	1.3		1.25	1.3	: 1
Amplitude Imbalance				0.2			0.2	dB
Phase Imbalance				3			3	deg
Power Rating	Forward Power			30				W
	Reverse Power			2				W
	Peak Power			300				W
				(10% Duty Cycle, 1 us Pulse Width)				
Weight				0.2 Max.				lbs
Impedance				50				Ω
Input / Output Connectors		SMA-Female(Input) – SMA-Female(Output)						
Package		Epoxy Sealed (Standard)						
		Hermetically Sealed (Optional)						

**Environmental Specifications and Test Standards**

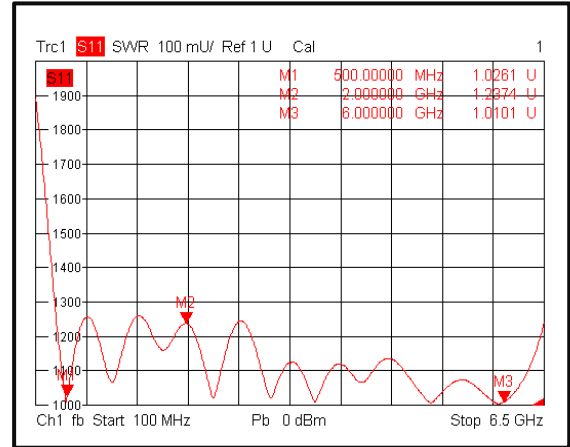
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for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

Typical Performance Plots

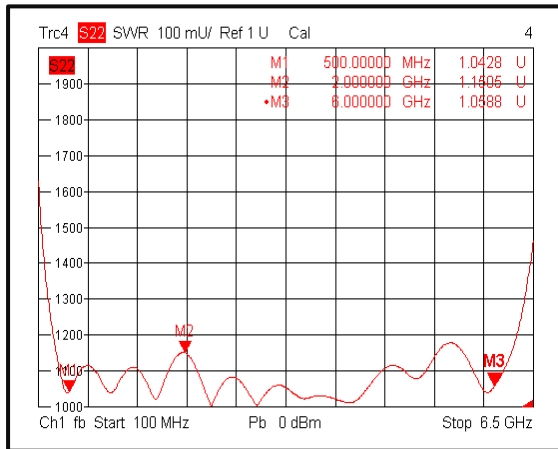
Loss & Amplitude Imbalance



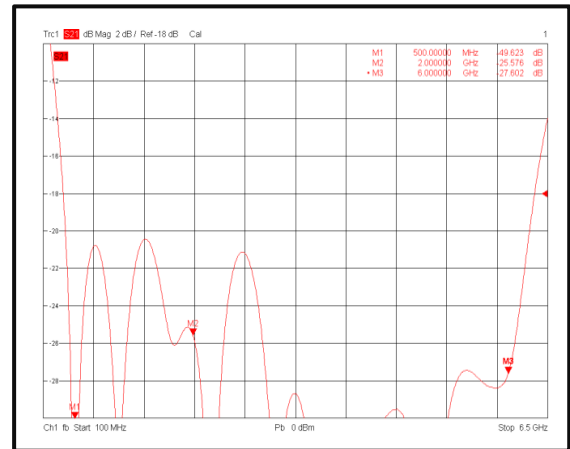
Input VSWR



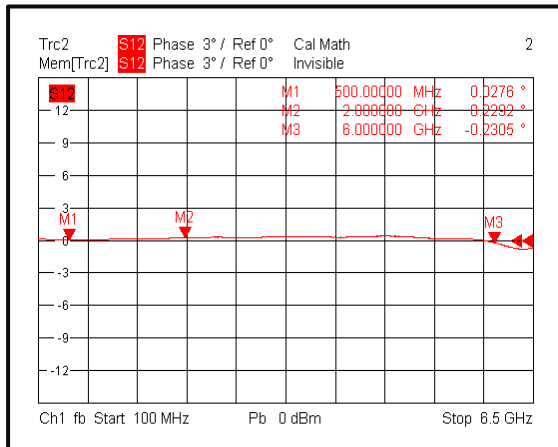
Output VSWR



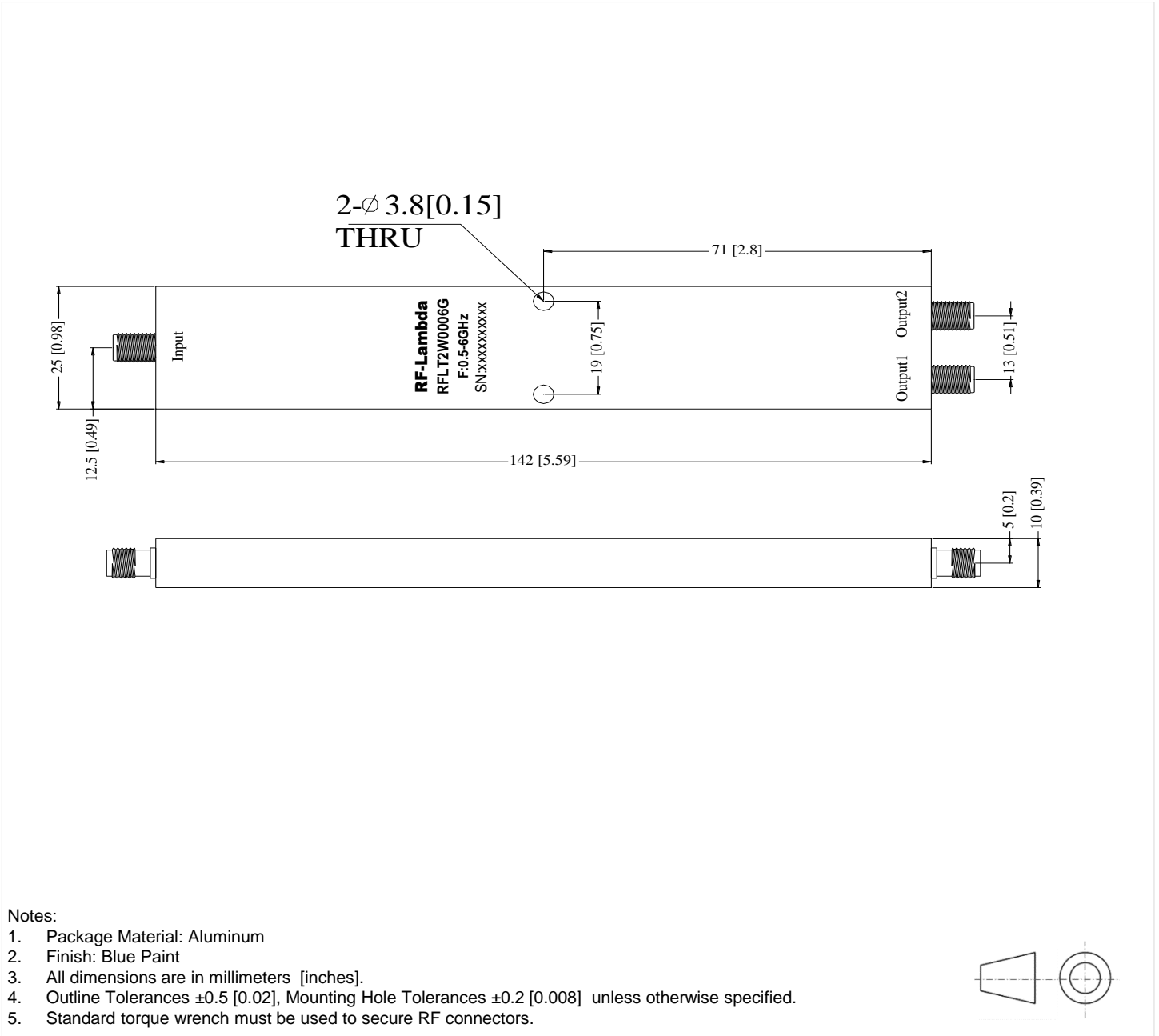
Isolation



Phase Imbalance



**Outline Drawing**



**Additional Information**

Documentation	Webpage
Connector Torque Specifications	<a href="https://www.rflambda.com/pdf/Torque_Specifications.pdf">https://www.rflambda.com/pdf/Torque_Specifications.pdf</a>
Random Vibration Test Standard	<a href="https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf">https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf</a>

**Ordering Information**

Part Number	Modification	Description
RFLT2W0006G	connectors SMA-Female	0.5GHz-6GHz 2-Way Power Divider
RFLT3W0006G	connectors SMA-Female	0.5GHz-6GHz 3-Way Power Divider
RFLT4W0006G	connectors SMA-Female	0.5GHz-6GHz 4-Way Power Divider
RFLT4W0006GA	connectors SMA-Female	0.5GHz-6GHz 4-Way Power Divider
RFLT8W0006G	connectors SMA-Female	0.5GHz-6GHz 8-Way Power Divider

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