



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLT5W00300M

Coaxial 10W 0° 5-Way Power Divider 1 - 300MHz



Features

- High power handling up to 10W
- 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, $T_A=25\text{ }^{\circ}\text{C}$

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		1		150	150		300	MHz
Nominal Splitter Loss			7			7		dB
Insertion Loss			0.8	1.2		1.0	1.5	dB
Isolation		20	22		20	22		dB
Input VSWR			1.3	1.5		1.3	1.5	:1
Output VSWR			1.4	1.5		1.3	1.5	:1
Amplitude Imbalance			± 0.25	± 0.4		± 0.4	± 0.6	dB
Phase Imbalance			± 3	± 5		± 3	± 5	deg
Power Rating	Forward Power	10						W
	Reverse Power	0.5						W
	Peak Power	100						W
Impedance		50						Ohms
Weight		9.88						Ounces
Input / Output Connectors		SMA-Female						
Material		Aluminum						
Finish		Chromate Finish Aluminum						

Coaxial 10W 0° 5-Way Power Divider 1 – 300MHz



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLT5W00300M

Environmental Specifications and Test Standards

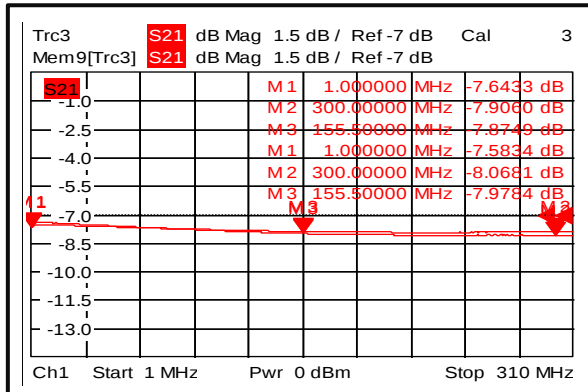
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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)

Coaxial 10W 0° 5-Way Power Divider 1 – 300MHz

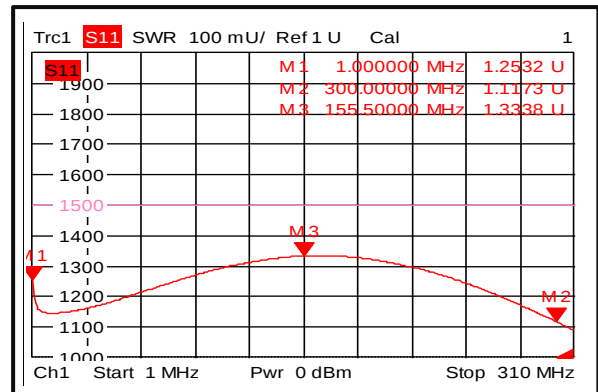


Typical Performance Plots

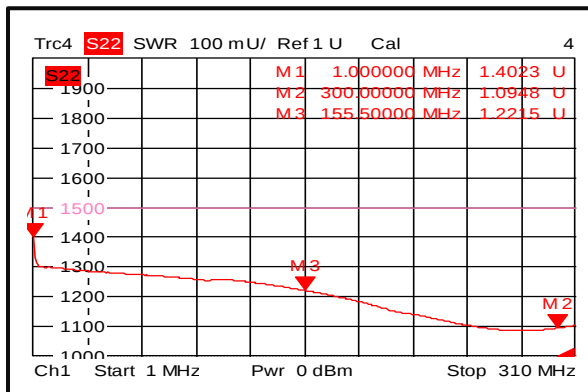
Loss & Amplitude Imbalance



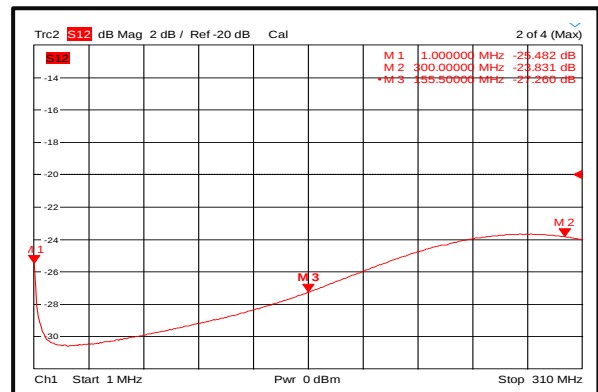
Input VSWR



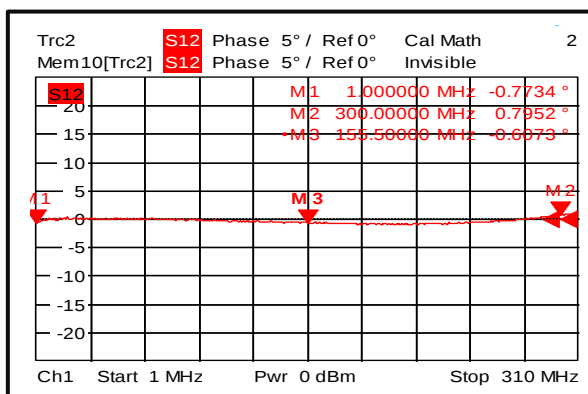
Output VSWR



Isolation



Phase Imbalance





RF-LAMBDA

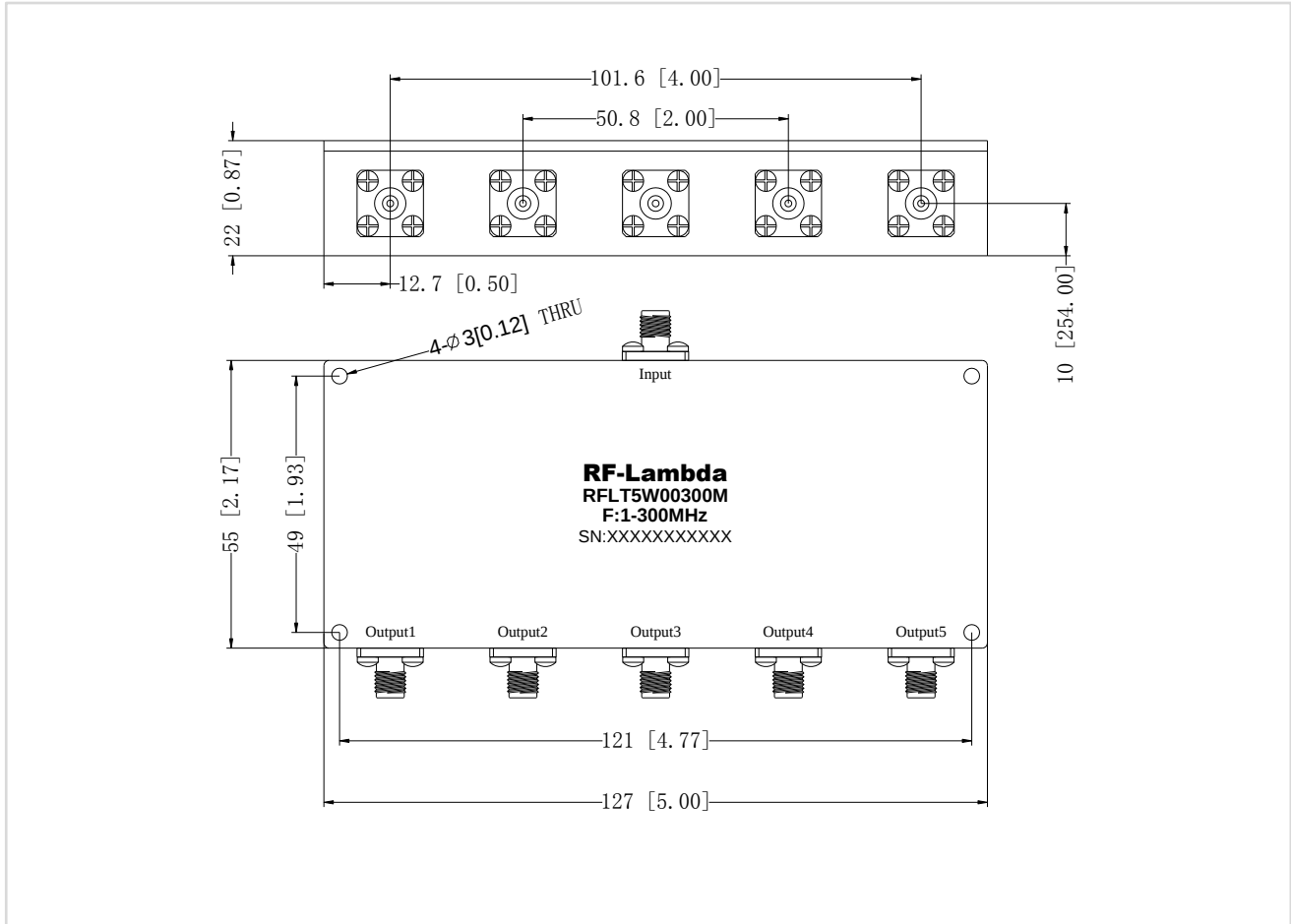
LEADER OF RF BROADBAND SOLUTIONS

RFLT5W00300M

Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.25 [0.01]



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Coaxial 10W 0° 5-Way Power Divider 1 – 300MHz