



RF-LAMBDA

The power beyond expectations

RFHB14M25GVT

Coaxial 50W 1.4-2.5GHz 90° Hybrid



- High power handle capability up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient material offer stable performance over temperature
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Electrical Specifications

Parameters		Min.	Typ.	Max.	Units
Frequency Range		1.4		2.5	GHz
Nominal Coupling			3		dB
Insertion Loss			0.15	0.2	dB
Isolation		23	25		dB
Amplitude Unbalance			± 0.25	± 0.35	dB
Phase Unbalance				± 2	deg
VSWR			1.15	1.2	
Power Rating	Average	50			W
	Perk	0.5			KW
Impedance		50			Ohms
Weight		35			g
Operating Temperature		-45 to +85			°C
Input / Output Connector		SMA-Female			
Material		Aluminum			
Finishing		Gray paint			

Coaxial 50W 1.4-2.5 GHz 90° Hybrid Coupler



RF-LAMBDA

The power beyond expectations

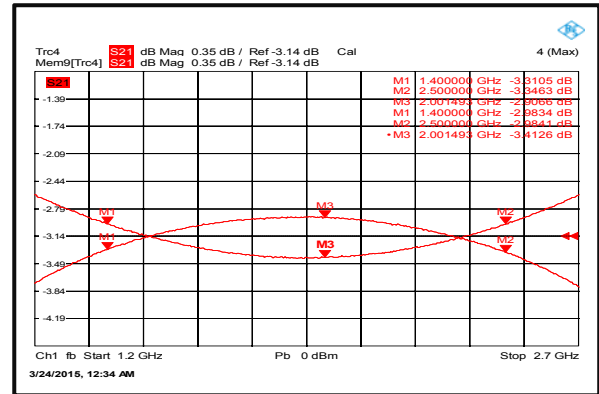
RFHB14M25GVT

Environment Specifications

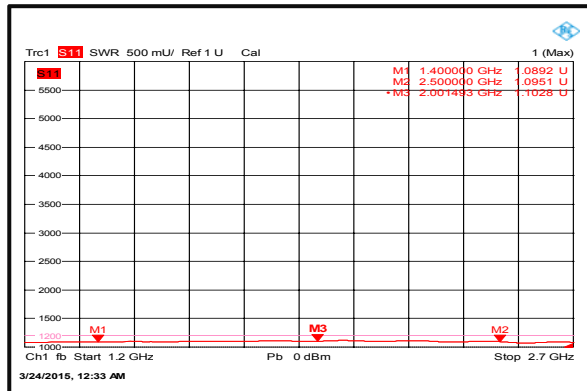
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave, 3 axis both directions

Typical Performance Plots

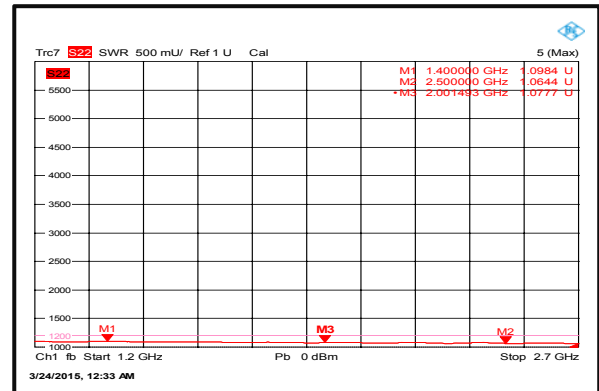
Loss & Amplitude Unbalance



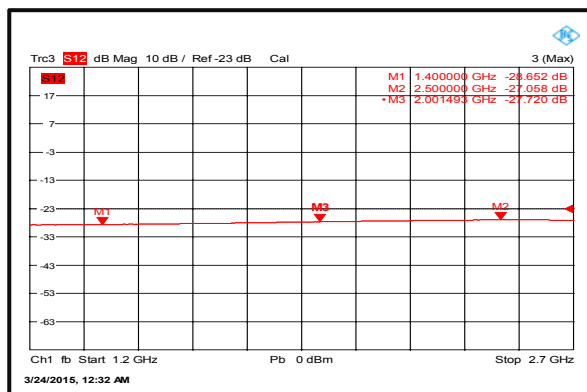
Input VSWR



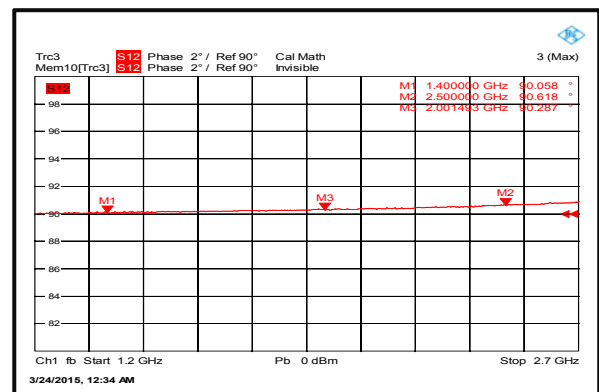
Output VSWR



Isolation



Phase Unbalance



Coaxial 50W 1.4-2.5 GHz 90° Hybrid Coupler



RF-LAMBDA

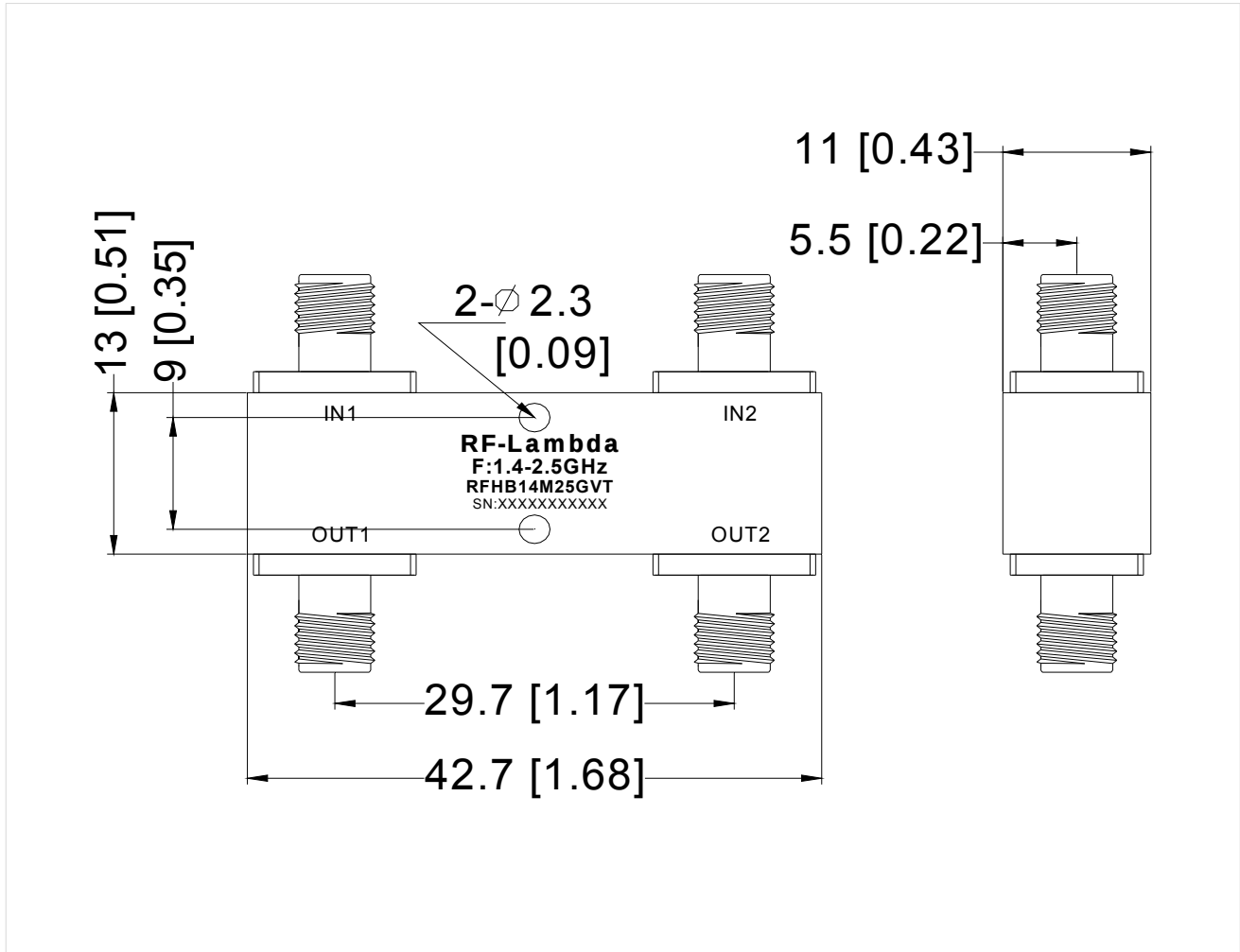
The power beyond expectations

RFHB14M25GVT

Outline Drawing:

All Dimensions in mm (inches)

Tolerance ± 0.2 (0.008)



Coaxial 50W 1.4-2.5 GHz 90° Hybrid Coupler

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.