



RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFHB14M05GVT

50 W 1.4-5.25GHz 90° Hybrid Coupler



- 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		5.25	GHz
Nominal Coupling			3		dB
Insertion Loss			0.4	0.6	dB
Isolation		20	22		dB
Amplitude Unbalance			±0.5	±0.7	dB
Phase Unbalance			±3	±5	deg
VSWR			1.2	1.3	
Power Rating	Average	50			W
	Perk	0.5			KW
Impedance		50			Ohms
Weight		/			ounces
Operating Temperature		-45 to +85			°C
Input / Output Connector		SMA-Female			
Material		Aluminum			
Finishing		Gray paint			

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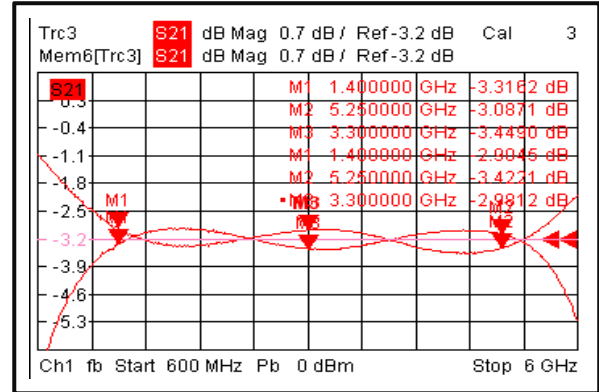
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Environment Specifications

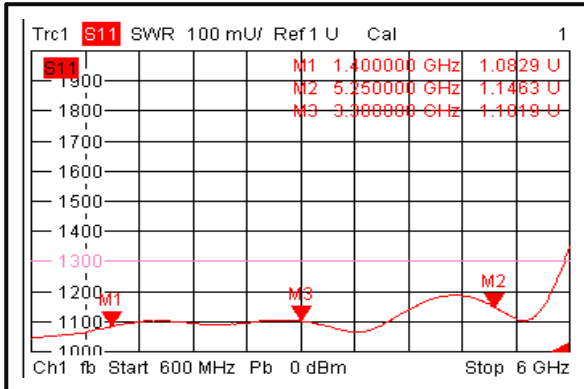
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-55 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical Performance Plots

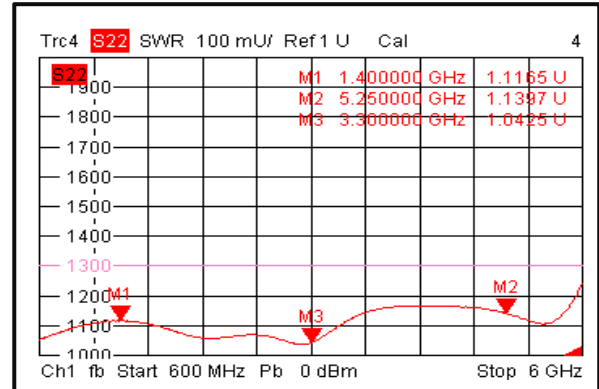
Loss & Amplitude Unbalance



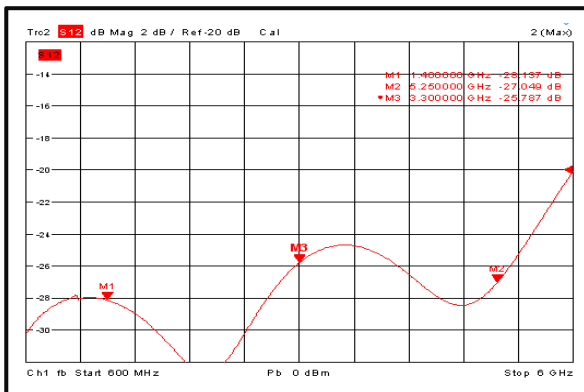
Input VSWR



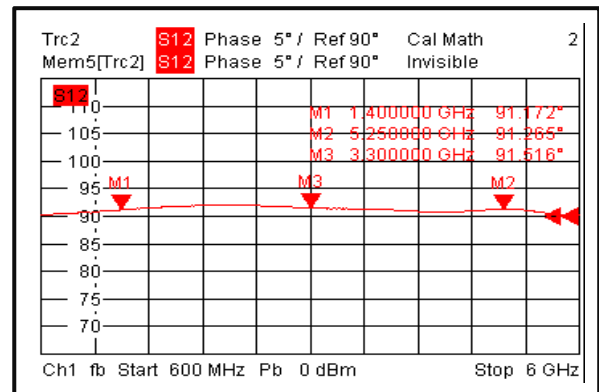
Output VSWR



Isolation



Phase Unbalance



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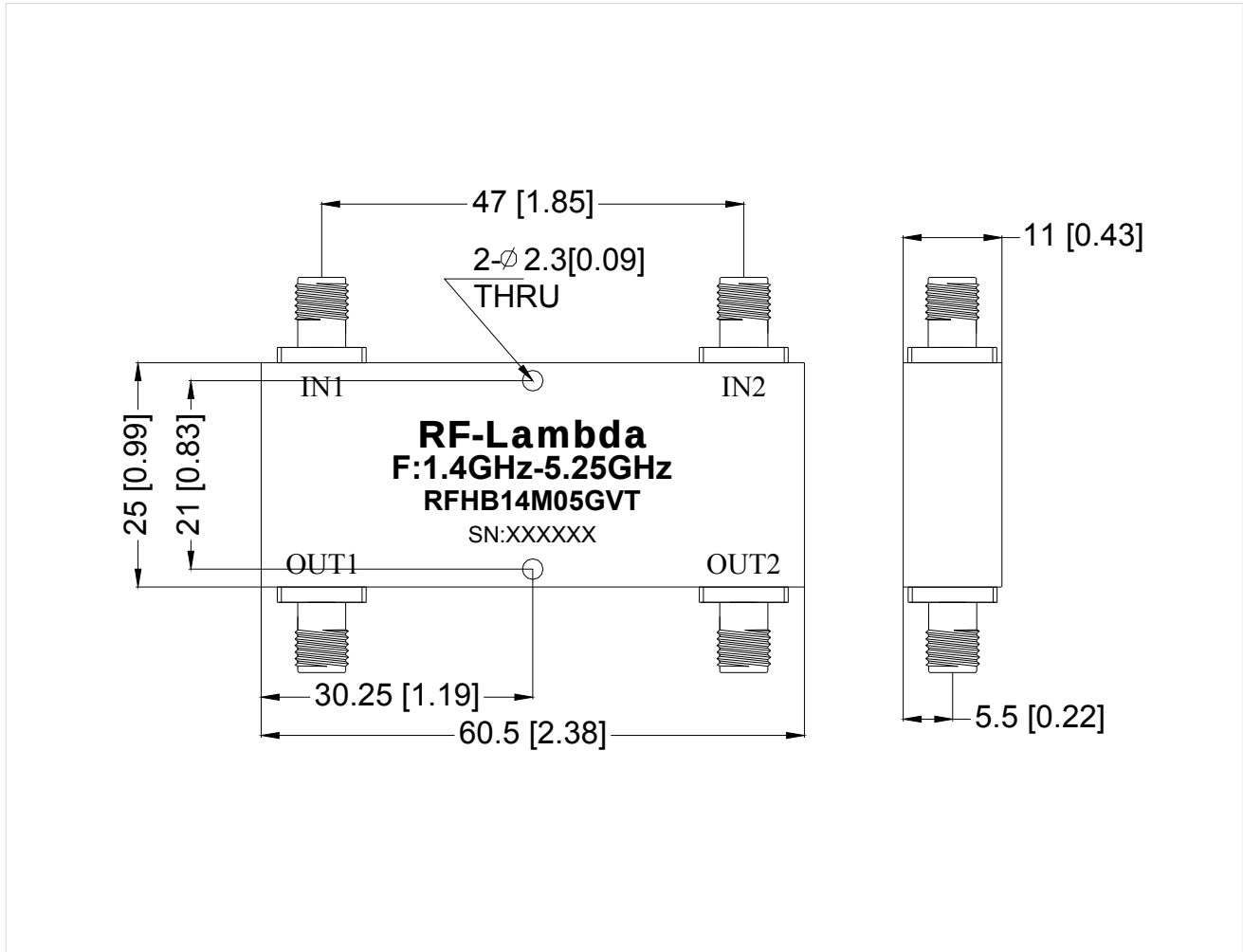
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Outline Drawing:

All Dimensions in mm (inches)

Tolerance ± 0.25 (0.01)



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