



Coaxial 50 W 2.6-5.2GHz 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		2.6		5.2	GHz
Nominal Coupling			3		dB
Insertion Loss			0.2	0.3	dB
Isolation		22	24		dB
Amplitude Unbalance			± 0.35	± 0.5	dB
Phase Unbalance				± 2	deg
VSWR			1.15	1.2	
Power Rating	Average	50			W
	Perk	0.5			KW
Impedance		50			Ohms
Weight		0.89			ounces
Operating Temperature		-45 to +85			°C
Input / Output Connector		SMA-Female			
Material		Aluminum			
Finishing		Gray paint			

Environment Specifications

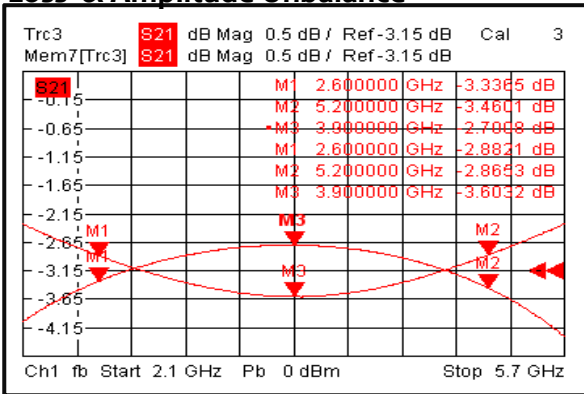
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

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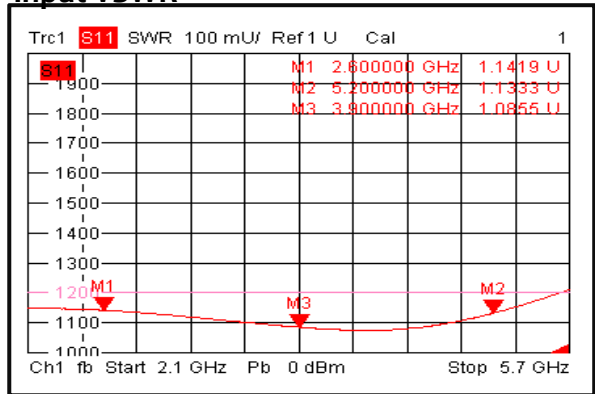


Typical Performance Plots

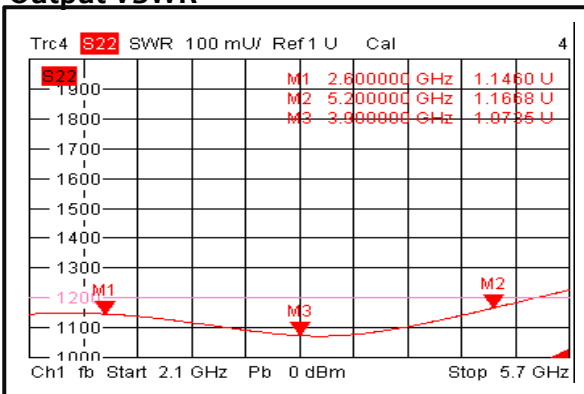
Loss & Amplitude Unbalance



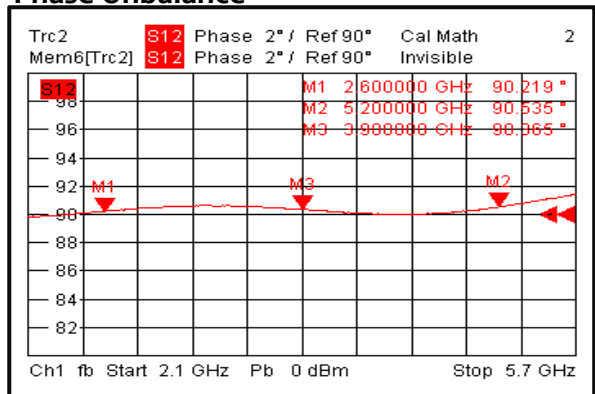
Input VSWR



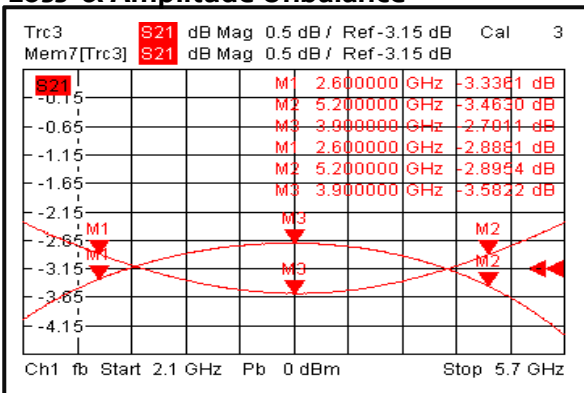
Output VSWR



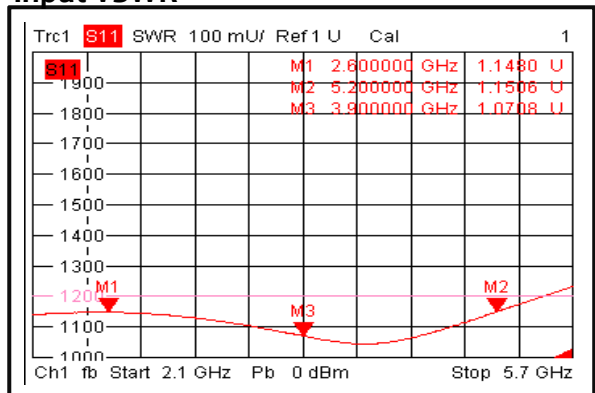
Phase Unbalance



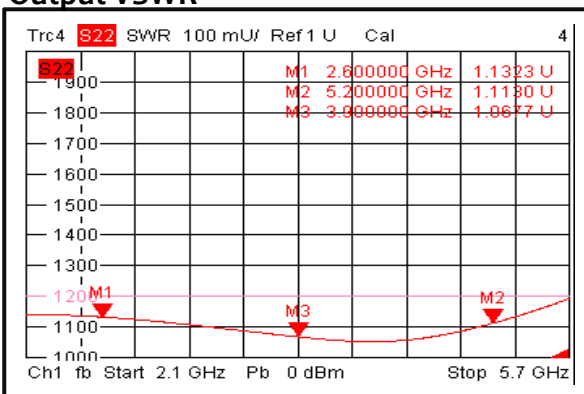
Loss & Amplitude Unbalance



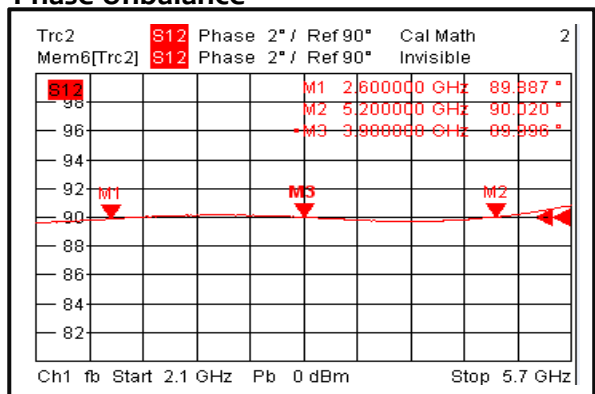
Input VSWR



Output VSWR



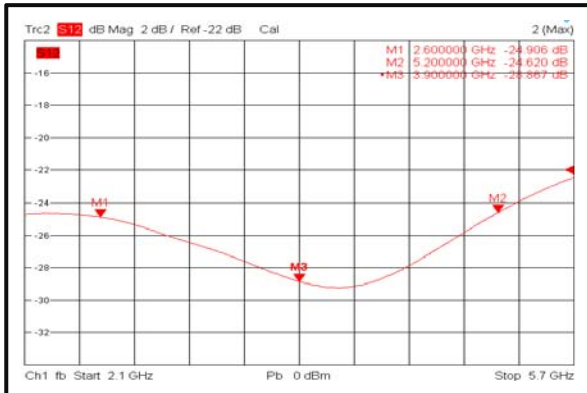
Phase Unbalance



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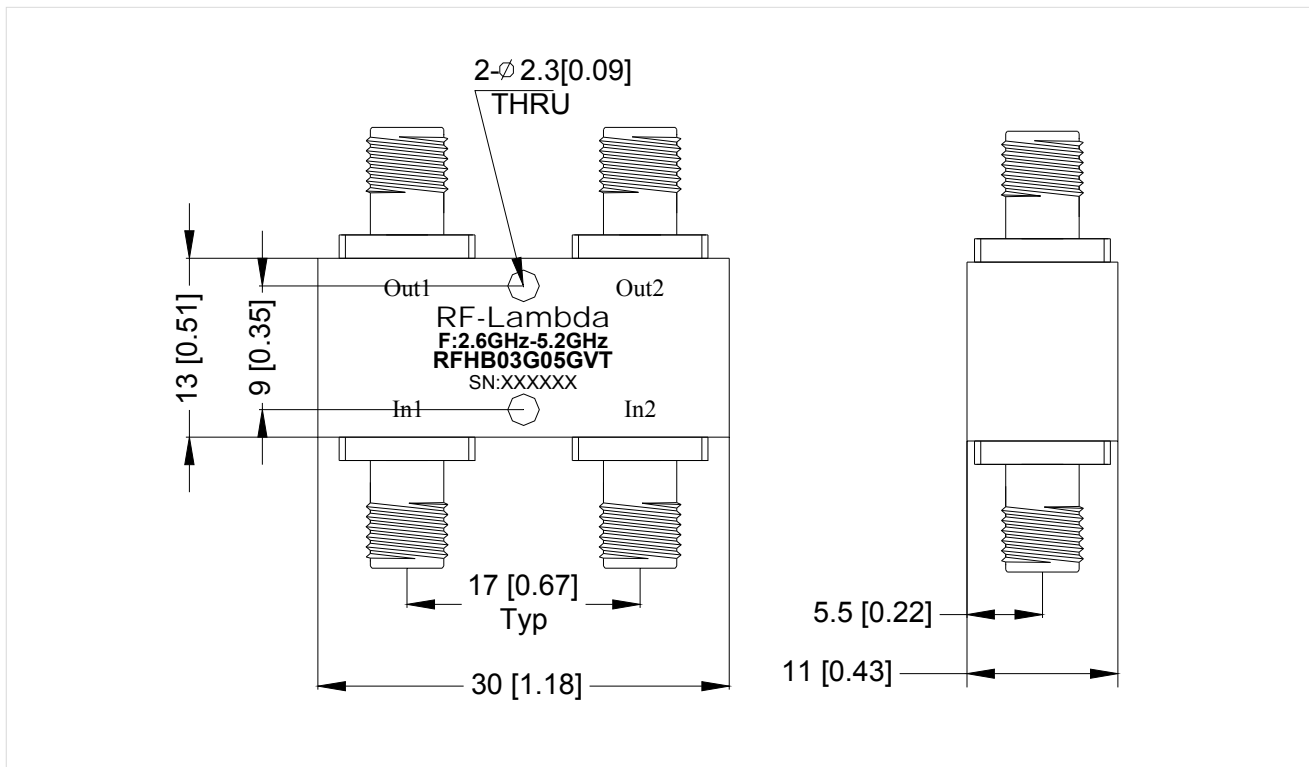
Isolation



Outline Drawing:

All Dimensions in mm (inches)

Tolerance ± 0.2 (0.008)



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