



250 W 0.9-9GHz 35 dB Directional Coupler



- High power handle capability up to 250W
- Wide band operation
- High directivity 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.	Min.	Typ.	Max.	Units
Frequency Range		0.9		8	8		9	GHz
Nominal Coupling		34.5	35	36.5	34.5	35	36	dB
Frequency Sensitivity			±0.7	±1		±0.5	±0.7	dB
Directivity		16	18		11	14		dB
Insertion Loss (Excl Coupling)			0.3	0.4		0.35	0.4	dB
Primary Return loss		14	20		14	18		dB
Secondary Return loss		14	20		14	18		dB
Power Rating	Average	250						W
	Peak	1						KW
Impedance		50						Ohms
Operating Temperature		-45 to +85						°C
Weight		6.7						ounces
Input / Output Connector		Input / Output: N-Female Coupled :SMA-Female						
Material		Aluminum						
Finishing		Gray Paint						



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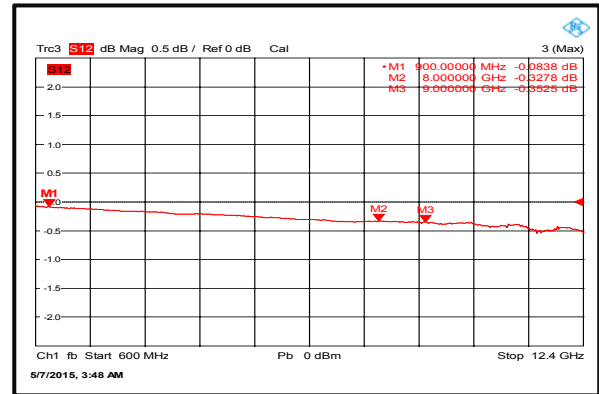
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Environment specifications

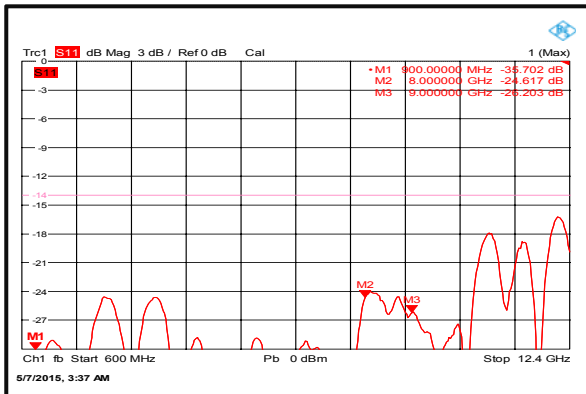
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-55 to +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Typical Performance Plots

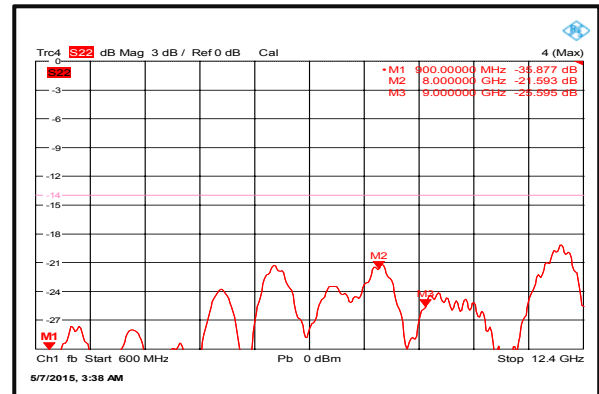
Insertion Loss



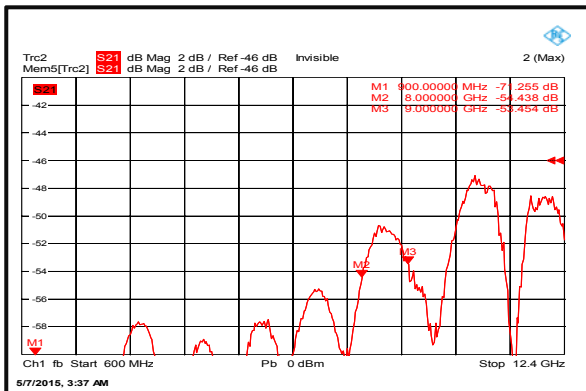
Primary Return Loss



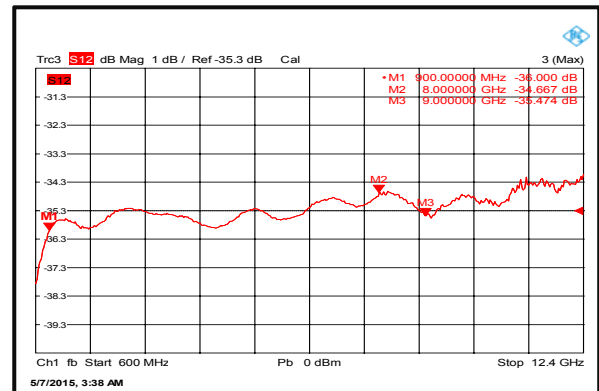
Secondary Return Loss



Directivity



Nominal Coupling



Coaxial 250 W 0.9-9 GHz 35 dB Directional Coupler



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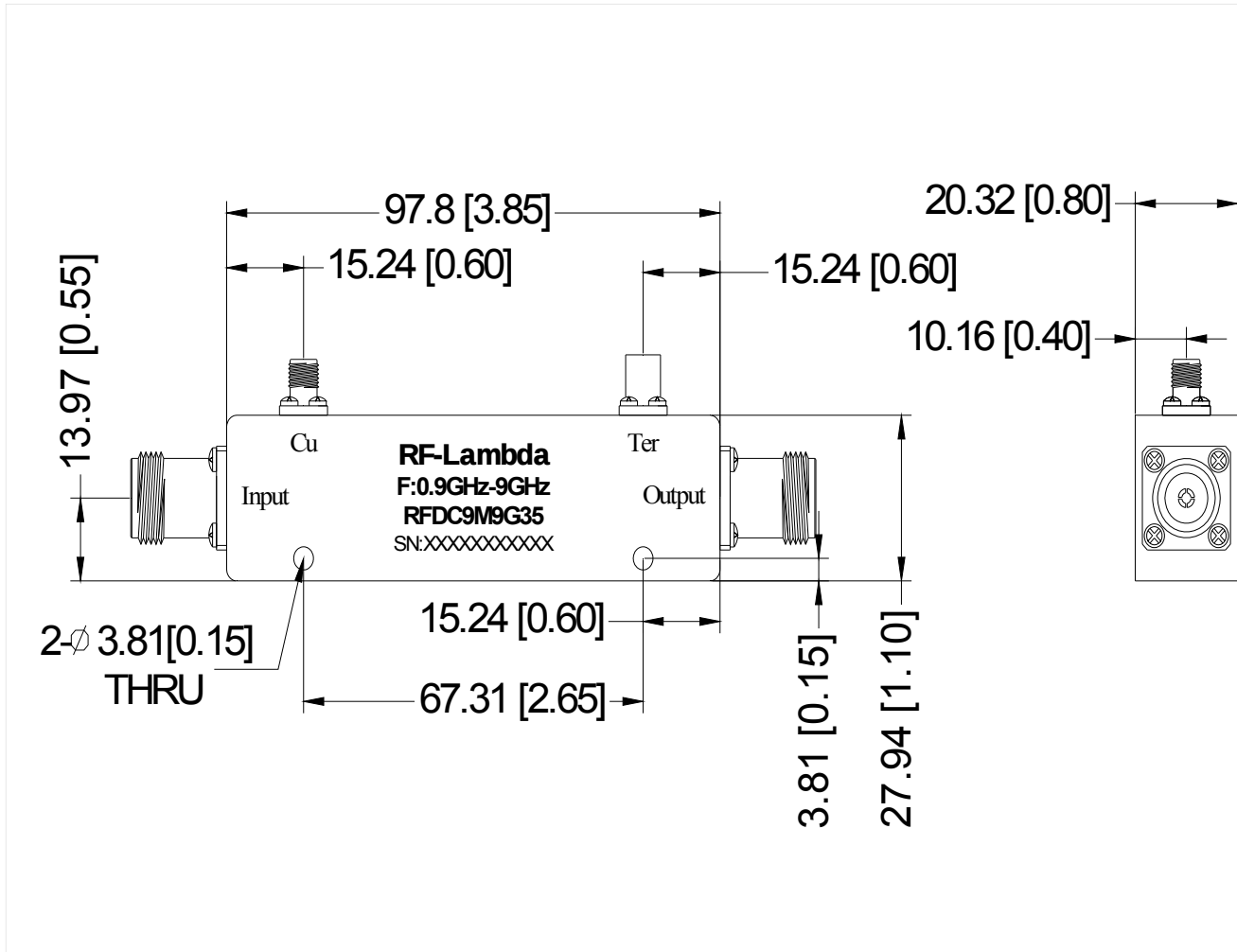
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Outline Drawing:

All Dimensions in mm (inches)

Tolerance ± 0.25 (0.01)



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