



300W 2.9-3.3GHz 40dB Dual Directional Coupler



Electrical Specifications

- High power handle capability up to 300W
- 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

Parameters		Min.	Typ.	Max.	Units
Frequency Range		2.8		3.4	GHz
Nominal Coupling		39	40	41	dB
Frequency Sensitivity			±0.2	±0.3	dB
Directivity		15	16		dB
Insertion Loss (Excl Coupling)			0.2	0.4	dB
VSWR Primary			1.15	1.2	
VSWR Secondary			1.15	1.2	
Power Rating	Average	300			W
	Peak	3			KW
Impedance		50			Ohms
Operating Temperature		-45 to +85			°C
Weight		/			ounces
Input / Output Connector		Input & Output: 7/16-Female		Coupled Port: N-Female	
Material		Aluminum			
Finishing		Gray Paint			

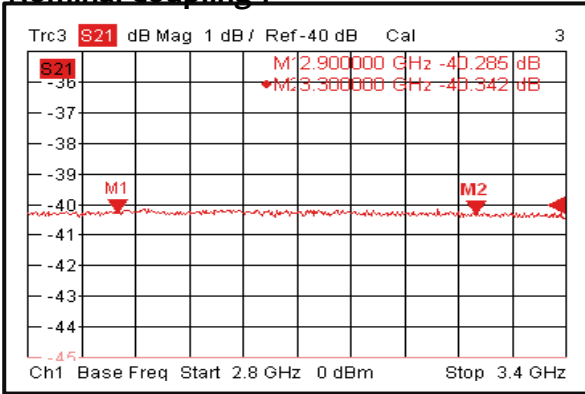
Environment specifications

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

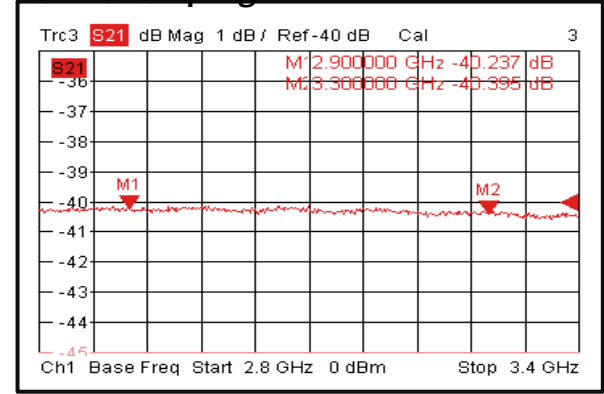


Typical Performance Plots

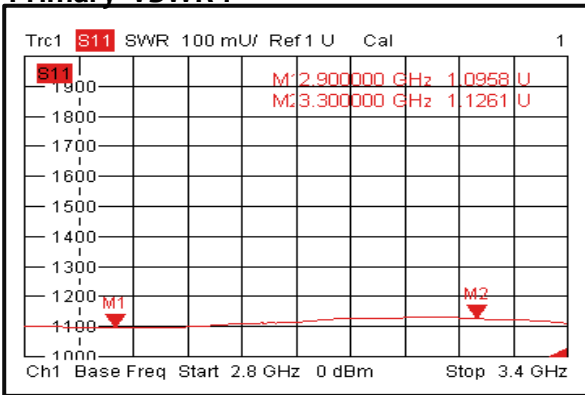
Nominal Coupling 1



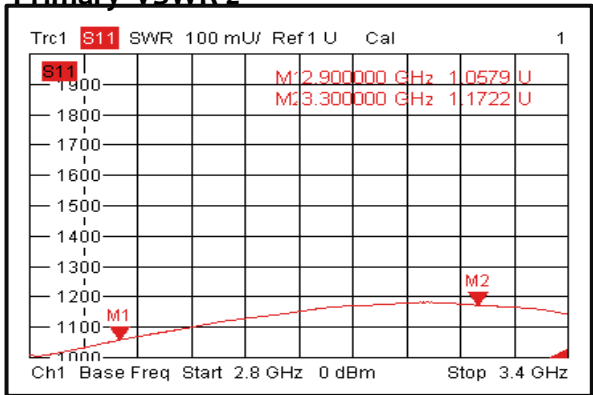
Nominal Coupling 2



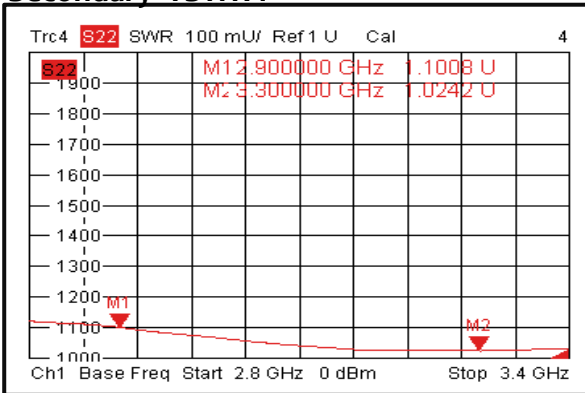
Primary VSWR 1



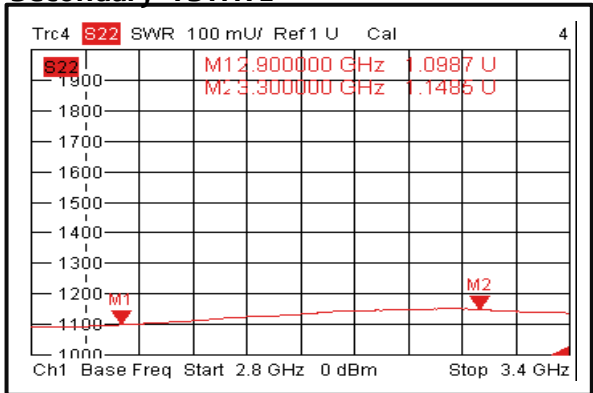
Primary VSWR 2



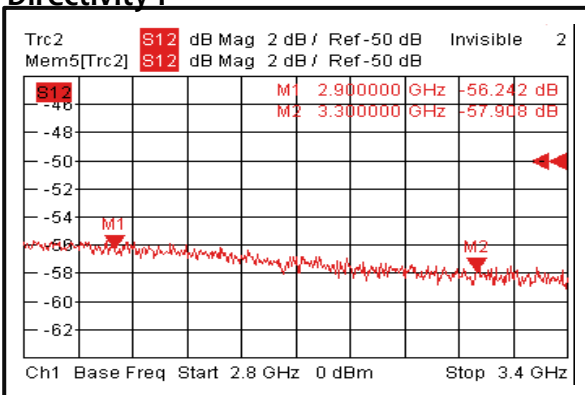
Secondary VSWR 1



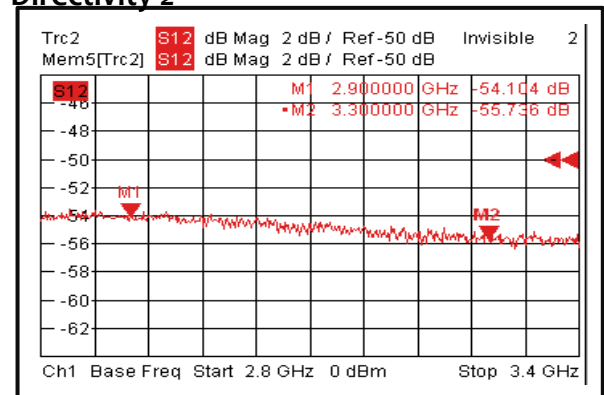
Secondary VSWR 2



Directivity 1



Directivity 2





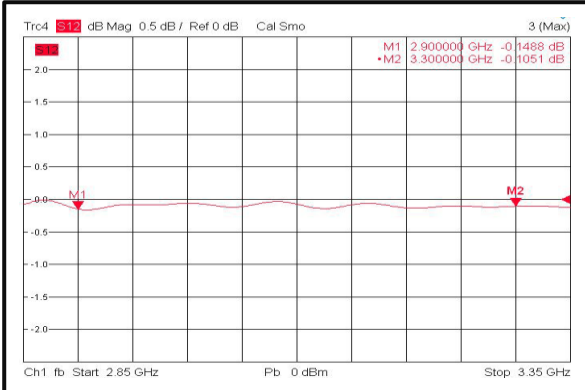
RF-LAMBDA

LEADER OF BROADBAND SOLUTIONS

RFDDC2G3G40D

Coaxial 300 W 2.9-3.3GHz 40dB Dual Directional Coupler

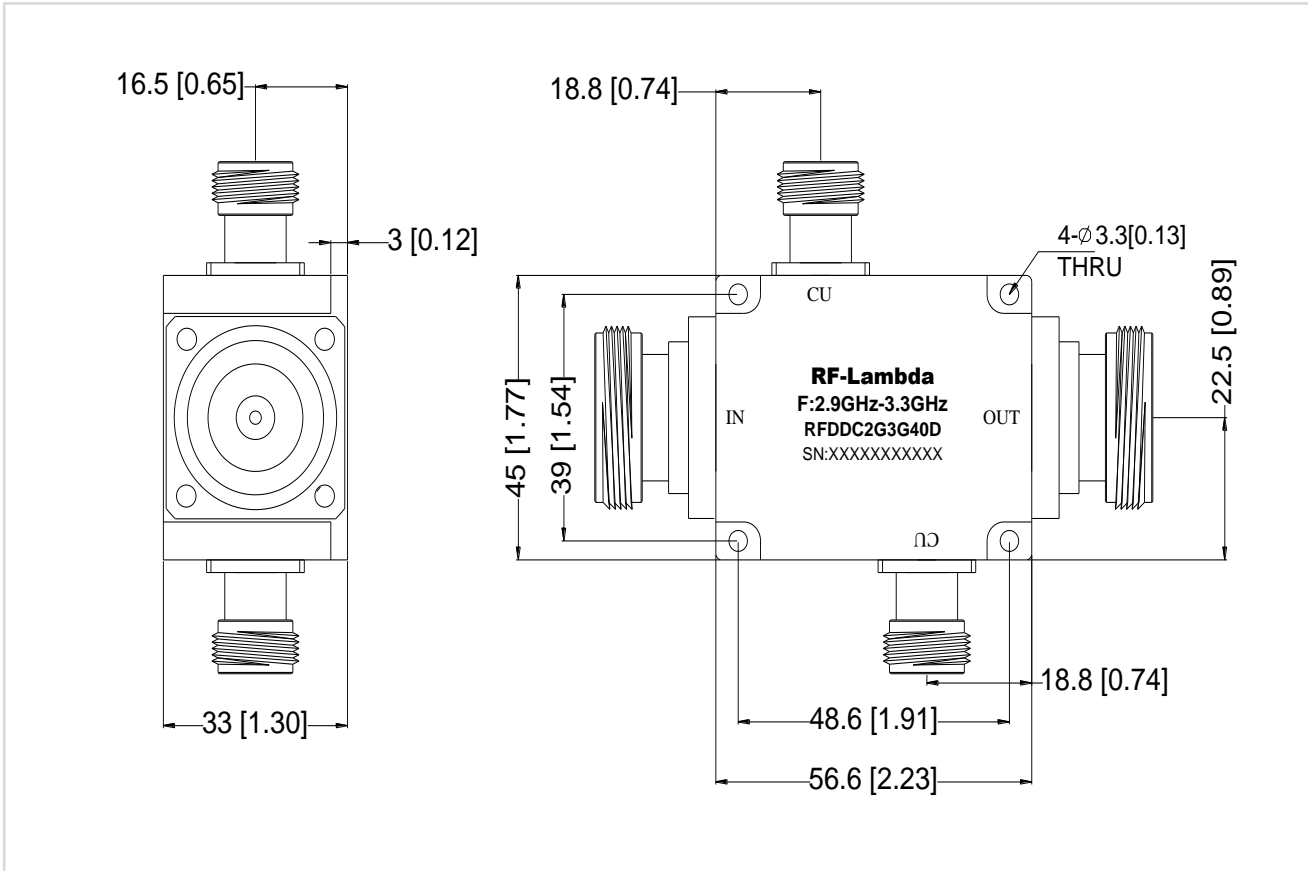
Insertion Loss



Outline Drawing:

All Dimensions in mm (inches)

Tolerance ± 0.2 (0.008)



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