

Coaxial 50W 10dB Dual Directional Coupler 1-4GHz

Features

- High Power Handling up to 50 W
- Wide band operation
- High directivity within operational band
- Low Insertion loss
- Stable performance over temperature
- LMDS multi-carrier operation
- High peak to average handling capability
- All specifications can be modified upon request



Parameters		Min.	Typ.	Max.	Units
Frequency Range		1		4	GHz
Nominal Coupling		9	10	11	dB
Frequency Sensitivity			±0.7	±1.0	dB
Directivity		18	22		dB
Insertion Loss (Excl Coupling)				0.5	dB
Insertion Loss (True)			1.2	1.4	dB
VSWR Primary			1.2	1.25	: 1
VSWR Secondary			1.2	1.25	: 1
Power Rating	Average	50			W
	Peak	1 (1% Duty Cycle, 1 us Pulse Width)			KW
Impedance		50			Ohms
Weight		2.6 Max.			ounces
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Gray Paint			

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Environmental Specifications

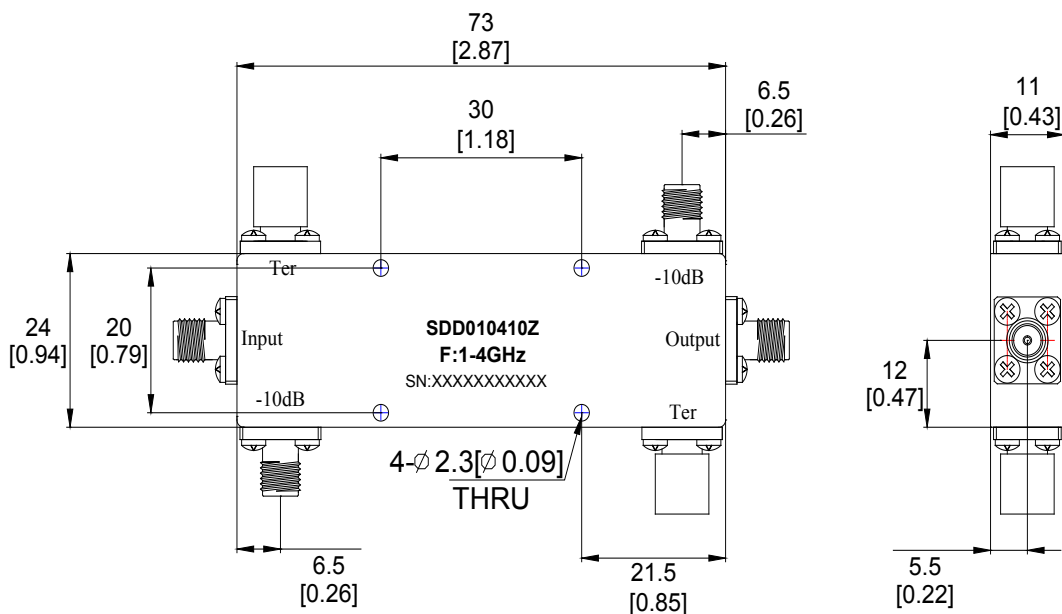
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
(Optional)	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

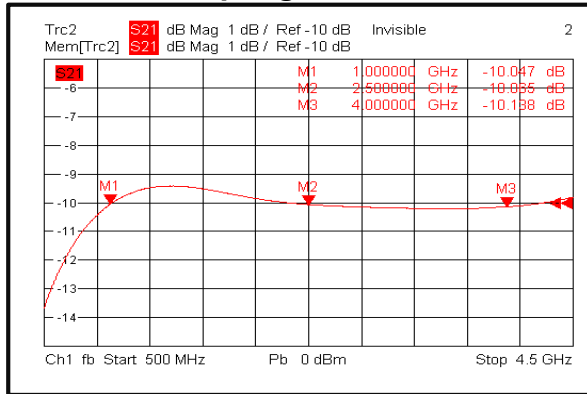
Outline Tolerances ±0.5(0.02)

Mounting Holes Tolerances ±0.2(0.008)

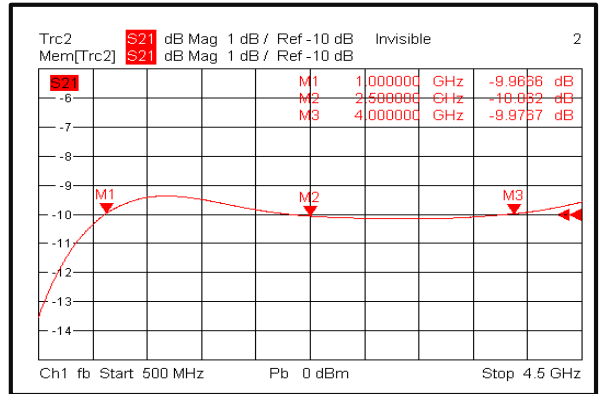


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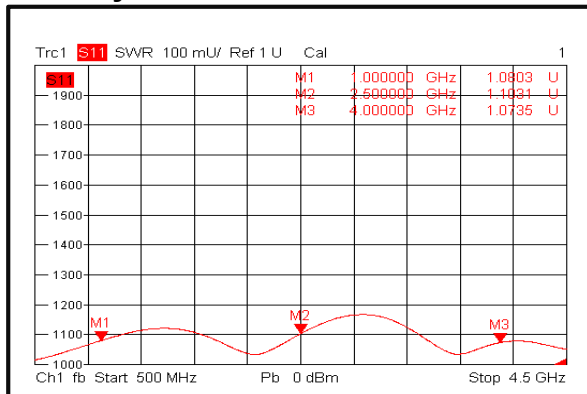
Nominal Coupling 1



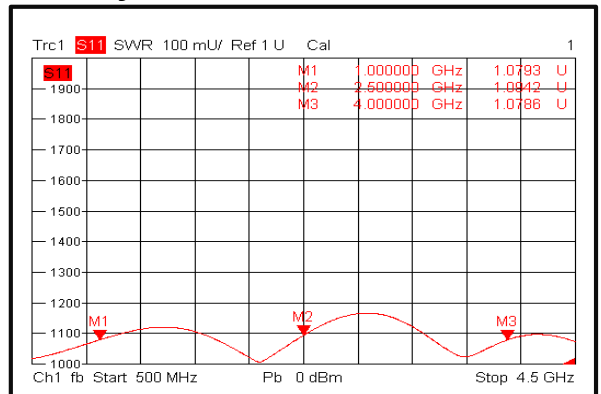
Nominal Coupling 2



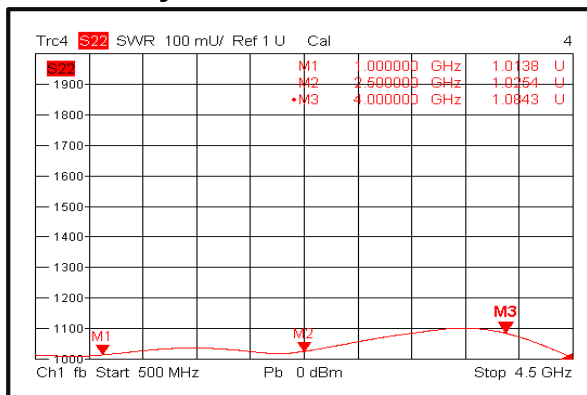
Primary VSWR 1



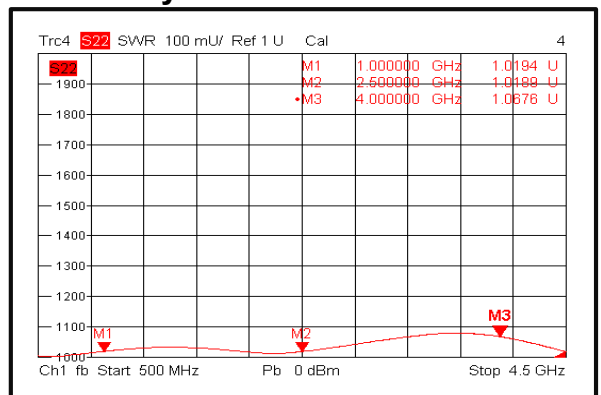
Primary VSWR 2



Secondary VSWR 1

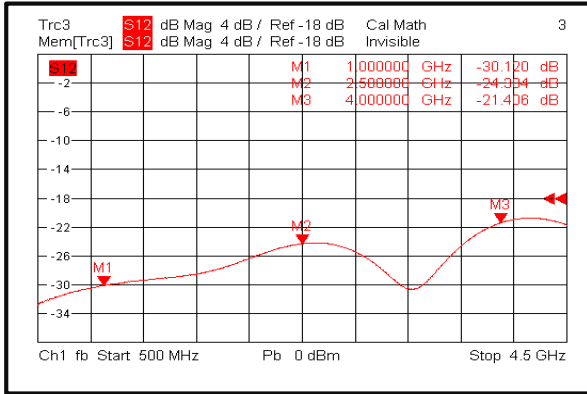


Secondary VSWR 2

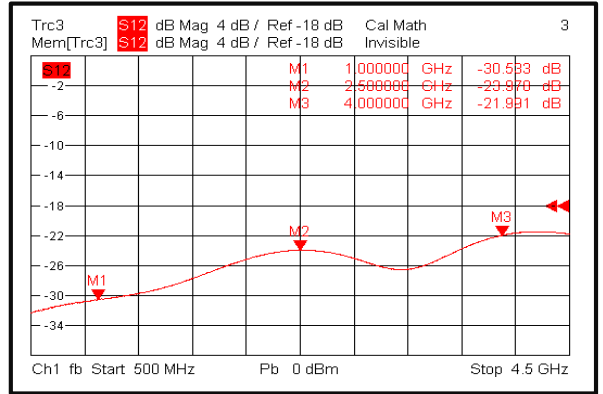


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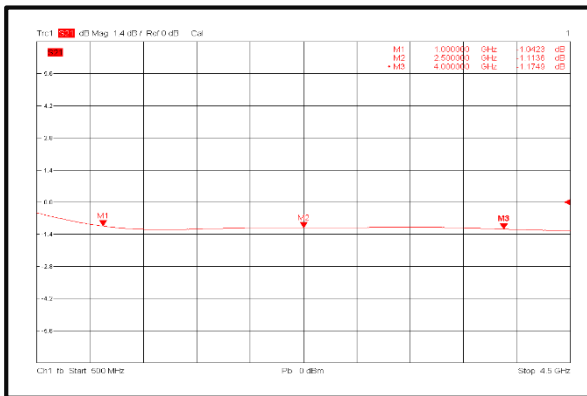
Directivity 1



Directivity 2



Insertion Loss



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