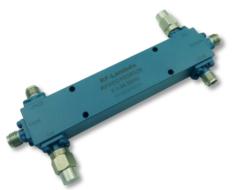


Coaxial 30W 20dB Dual Directional Coupler 1-26.5GHz



Features

- High power handling up to 30W
- Ultra Wide band operation
- High directivity within operational band
- **Low Insertion Loss**
- High peak to average handling capability

Typical Applications

- **Test and Measurement**
- Aerospace and military applications
- Wireless Infrastructure

Electrical Specifications, $T_A=25$ °C

Parameter		Min.	Тур.	Max.	Units
Frequency Range		1		26.5	GHz
Nominal Coupling		18.5	20	21.5	dB
Frequency Sensitivity			±0.7	±1.0	dB
Directivity		10	14		dB
Insertion Loss (Excl Coupling)				1.9	dB
Insertion Loss (true)			1.3	2.0	dB
VSWR Primary			1.3	1.7	:1
VSWR Secondary			1.3	1.7	:1
Power Rating	Average	30			w
	Peak	500			w
Impedance		50			Ohms
Weight		2.12			ounces
Input / Output Connectors		2.92mm-Female			
Material		Aluminum			
Finish		Blue Paint			



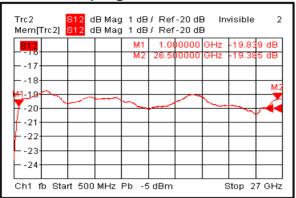
Environmental Specifications and Test Standards

Parameter	Standard	Description	
Operational Temperature		-45°C~+85°C	
Storage Temperature		-55°C~+125°C	
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)	
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS	
Electrical & Temperature Burn In	MIL-STD-39016	Temperature +85°C for 72 Hours	
Shock		 Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s Total 18 times (6 directions, 3 repetitions per direction). 	
Altitude		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)	
Hermetically Sealed (Optional) MIL-STD-883		MIL-STD-883 (For Hermetically Sealed Units)	

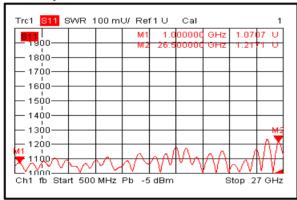


Typical Performance Plots

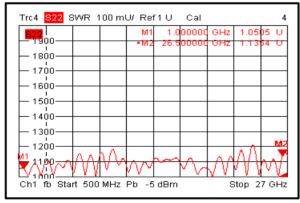
Nominal Coupling 1



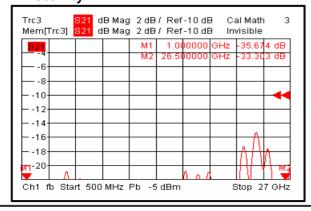
Primary VSWR 1



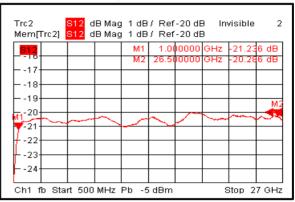
Secondary VSWR 1



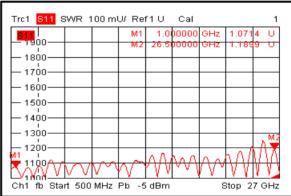
Directivity 1



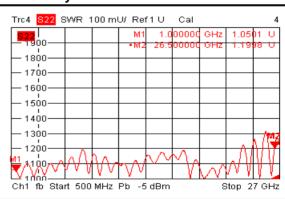
Nominal Coupling 2



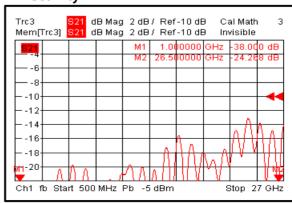
Primary VSWR 2



Secondary VSWR 2

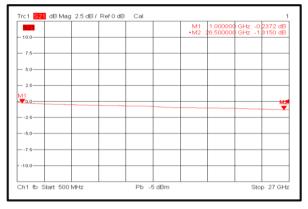


Directivity 2



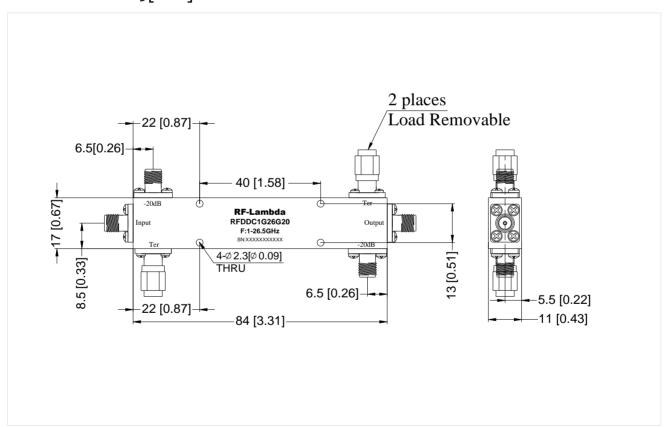


Insertion Loss



Outline Drawing:

All Dimensions in mm [inches] Tolerance ± 0.25 [0.01]



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