



### ULTRA WIDE BAND 400W HIGH POWER DIRECTIONAL COUPLER 100MHZ-800MHZ



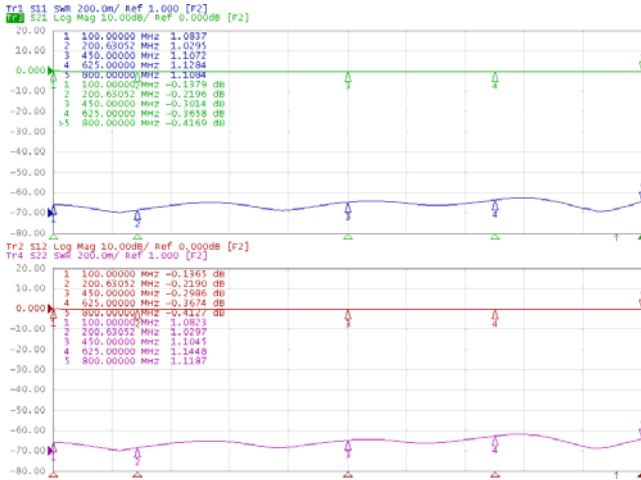
- Ultra wide band performance 100-800MHz
- High power operation up to 400W CW, 5KW peak power
- Compact size and low loss.
- Low passive inter-modulation product.
- Customized unit available.
- Applicable for base station, repeaters of CMDA 900MHz cellular network

Electrical Specifications			
Frequency Range:	100-800MHz	Power	400W CW / 5KW Peak
Coupling	22.6-19dB (0.1-0.4GHz) 20+/-1dB (0.4-0.8GHz)	Insertion Loss	0.3dB
Directivity	20dB	Freq. Sensitivity	±0.7dB
Environmental Specifications			
Operational Temp.	-40°C to 85°C base plate	Storage Temp.	-55°C to 120°C base plate
Altitude	45,000 ft		
Mechanical Specifications			
Humidity	95% relative humidity, 65°C 96Hour	Mechanical shock	30G, 11mSec half sin wave, 3 axis both directions
Vibration:	14.2g RMS (15-2000Hz) functional	Connectors:	N-Female Brass, Nickel Plate
	16.2g RMS (15-2000Hz) endurance, 1 hour/axis		Beryllium Copper, Gold Plate PIN

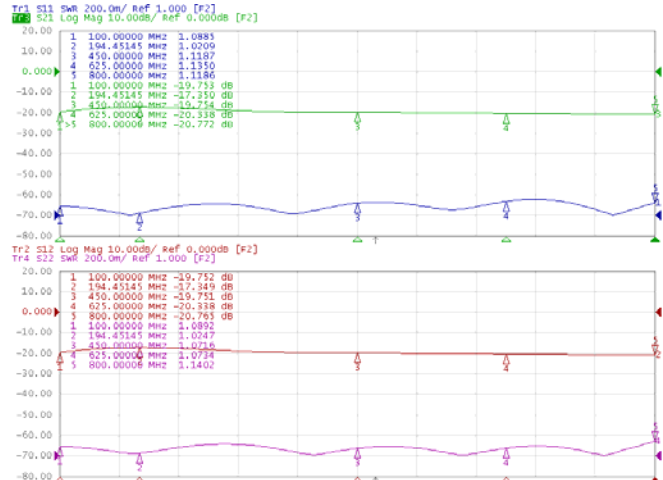
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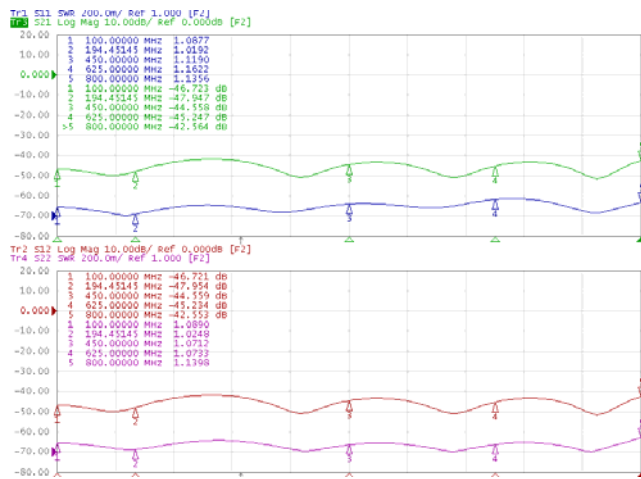
Insertion Loss and VSWR vs. Frequency



Coupling (30dB) and VSWR vs. Frequency



Isolation and VSWR vs. Frequency

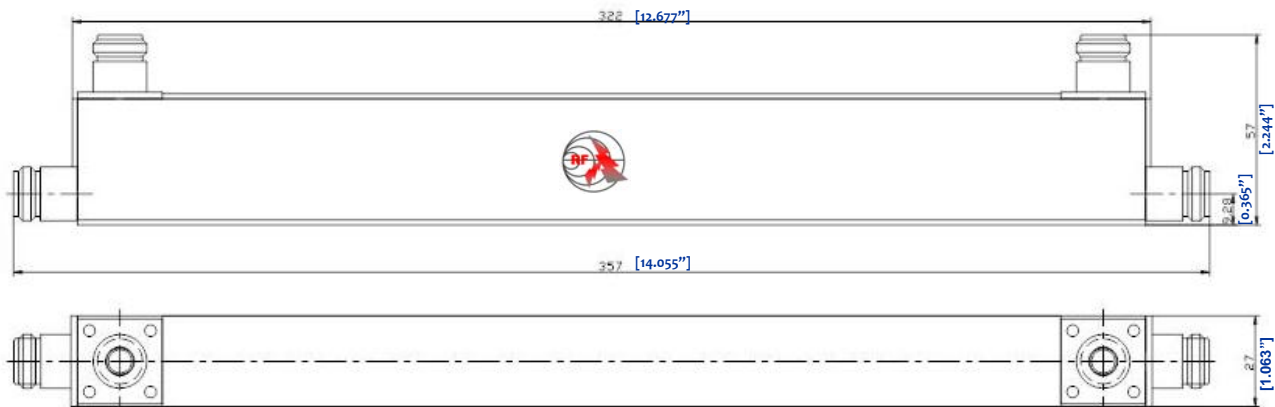


Part Number: RFDC1M8MXX

Coupling ratio --XX  
Sample: RFDC1M8M30 (20dB)



DRAWING:



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