



RF-LAMBDA

The power beyond expectations

RFDC1M4MXX

WIDE BAND 500W HIGH POWER DIRECTIONAL COUPLER 100-400MHZ



- **Ultra wide band performance 100MHz-400MHz**
- **High power operation up to 500W CW, 10KW peak power**
- **Compact size and low loss.**
- **Low passive inter-modulation product.**
- **Customized unit available.**
- **Applicable for base station, repeaters of CMDA GSM and UMTS cellular network**

WIDE BAND 500W DIRECTIONAL COUPLER 100-400MHZ

Electrical Specifications			
PN (20dB)	RFDC1M4M20	PN (30dB)	RFDC1M4M30
Frequency	100MHz-400MHz	Power	500W CW / 10KW Peak
Coupling	30dB, 20dB	Insertion Loss	0.25dB (30dB) 0.35dB (30dB)
Directivity	20dB (Coupling 30dB) 22dB (Coupling 20dB)	VSWR	1.2:1
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

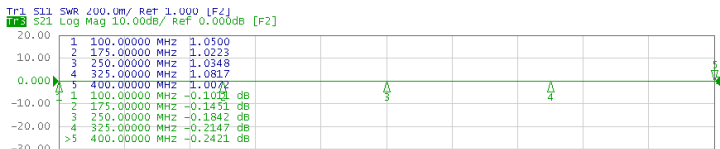


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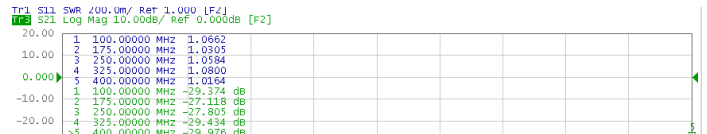
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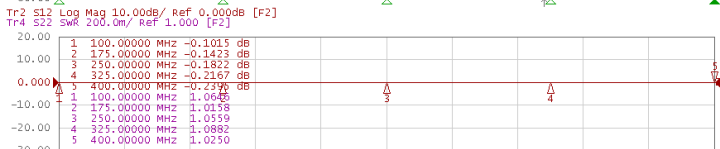
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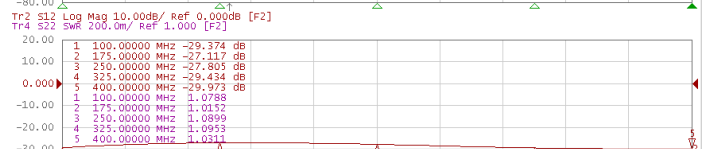
Insertion Loss and VSWR vs. Frequency



Coupling (30dB) and VSWR vs. Frequency

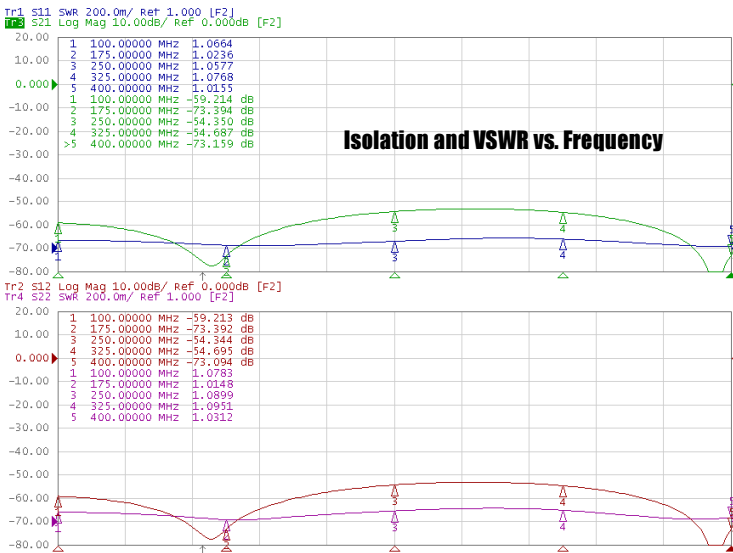


Isolation and VSWR vs. Frequency



Part Number: RFDC1M4MXX

Coupling ratio ---XX
Sample: RFDC1M4M30 (30dB)



DRAWING:

