



# Single Directional Couplers

C1-A84, 30dB Single Directional Coupler

Model	C1-A84		
Frequency range	1.0 - 12.4 GHz		
Coupling (see chart below)	30 dB		
Frequency range (GHz)	1.0-4.0	4.0-8.0	8.0-12.4
Coupling (incl. freq. sens.)	± 1.0	± 1.0	-3,+0
Frequency sensitivity	± 0.70	± 1.0	± 1.5
Directivity (dB)	20	17	13
Insertion Loss (dB)	0.10	0.15	0.20
Return Loss (dB)	20	17	13
Passive Intermodulation (PIM)	typical 160 dBc		
Power	600 Watts		
Peak	10 kW		
Connectors	TYPE N female Main line SMA female Coupled port		

- 600 W average power
- Low VSWR and Loss
- High reliability, Low PIM



The Model C1-A84 is one of RD Microwaves new Taperline products for broadband flat coupling value over the full range 1.0-12.4 GHz. The frequency sensitivity is included in the coupling accuracy specification over the full frequency range per the chart.

The unit uses a unique tapered coaxial airline (Taperline) continuous taper construction with an RFI compression sealing system for temperature insensitive performance and RF leakage control. The air dielectric and solid conductors are associated with low insertion loss, very high power, and low PIM performance.

Made in USA.

