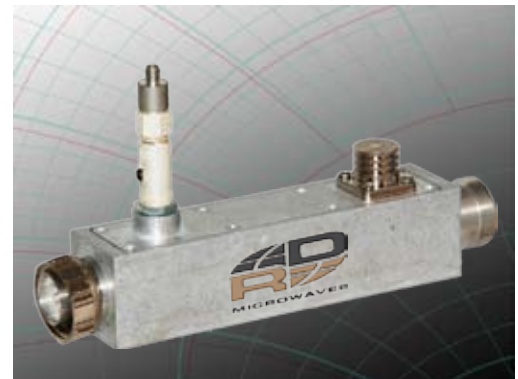




Model C1-A48, Single Directional Coupler, Adjustable

Model	C1-A48	
Frequency range	800 - 2170 MHz	
Coupling Value, adjustable	55 - 85 dB	
Directivity	TYP	MIN
	30 dB	25 dB
Insertion Loss	TYP	MAX
	800 MHz	0.03 dB
	2170 MHz	0.05 dB
VSWR and (Return Loss)	TYP	MIN
Input and Output	1.07 (30 dB)	1.12 (25 dB)
Impedance	50 Ω	
Intermodulation IM3 (2 x 43 dBm carrier)	< -150 dBc	
Max. Power	500 W Avg, 3KW Peak	
Termination Max. Power	3 W Avg	
Connectors	7-16 DIN male/female and coupled port: SMA female	
Material:	Aluminum, Conversion Coating Brass, Silver Plated	
DC continuity	RF and DC	
Input ↔ Output	RF only	
Input ↔ Coupled Port	RF only	
Weight approx	1.2 kg (2.64 lb)	



R&D Microwaves LLC patent pending, two section, airline, Directional Coupler covering wireless applications in the 800-2170 MHz band. Supplied with 7-16 DIN(m-f) connectors, this design offers RF power ratings of 500 watts (3.0 kW peak). Insertion loss is less than 0.10 dB, RL is better than 25 dB, coupling is 30 dB with directivity better than 25 dB across the entire band. These couplers are ideal for antenna power monitoring applications in base station installations. Custom connectors configuration and enhanced directivity models available.

- 500 W average power
- Low VSWR and Loss
- High reliability, Low PIM
- Custom connector configurations

