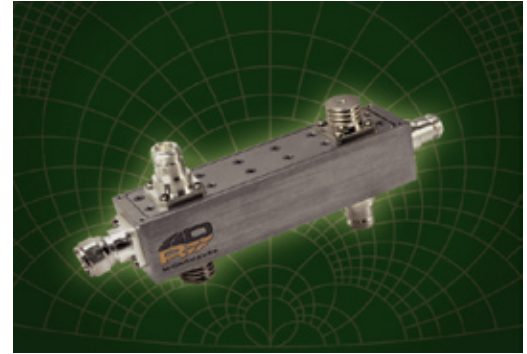


Dual Directional Couplers

C2-A07, 30dB Dual Directional Coupler PIM optimized
Two section, dual directional airline (slabline) coupler.
Type N Patent Pending

Model	C2-A07	
Frequency range	824 - 2170 MHz	
Coupling Value, 824 - 960 MHz 1710 - 2170 MHz	Input↔J1 or Output↔J2 30 +/- 0.4 dB 30 +/- 0.5 dB	
Directivity 870 - 960 MHz 1710 - 2170 MHz	TYP 30 25	MIN 25 20
Insertion Loss, Input↔Output 824 MHz 2170 MHz	TYP 0.03 dB 0.05 dB	MAX 0.07 dB 0.1 dB
VSWR and (Return Loss) Input and Output Coupled Port, J1 and J2	TYP 1.07 (30 dB) 1.15 (23 dB)	MIN 1.12 (25 dB) 1.3 (17.7 dB)
Impedance	50 Ω	
Intermodulation IM3 (2 x 43 dBm carrier)	150 dBc	
Max. power	300 W Avg, 3KW Peak	
Termination Max. power	3 W Avg	
Connectors	N male/female and N female, flange with o-ring	
Material: Housing Inner Conductor & Connectors	Aluminum, Conversion Coating Brass, Silver Plated	
DC continuity Input↔Output Input or Output↔J1 or J2	RF and DC RF only	
Profile cross-section	38.1 x 38.1 mm (1.5"x1.5")	
Weight approx	1.2 kg (2.64 lb)	

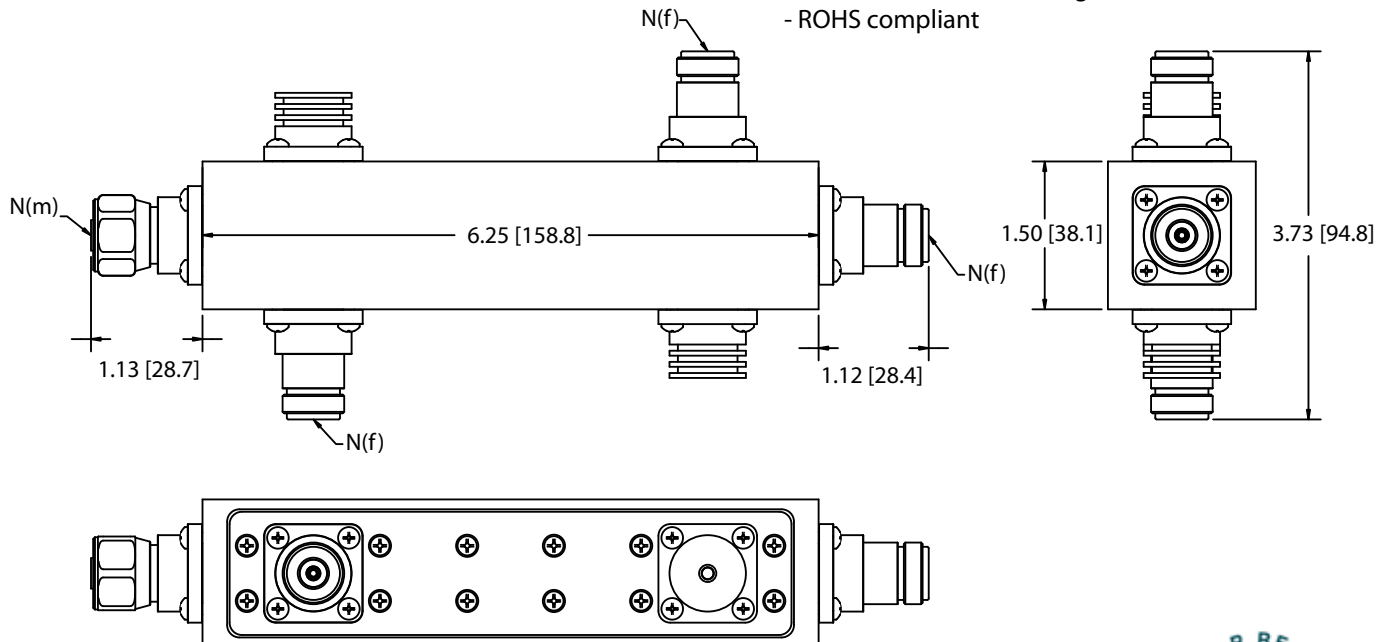


R&D Microwaves LLC patent pending, two section, airline, Dual Directional Coupler covering wireless applications in the 824-2170 MHz band. Available with N(m-f)/N(f) connectors, this design offers RF power ratings of 300 watts (2.5 kW peak). Insertion loss is less than 0.15 dB, RL is better than 23 dB, coupling is 30 dB with directivity better than 23 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.

Made in USA.

- 300 W average power
- Low VSWR and Loss
- High reliability, Low PIM
- Custom connectors configuration
- ROHS compliant

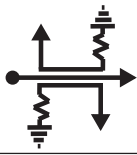
DIMENSIONS: in [mm]
TOLERANCE: 0.03 [0.8]



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C2-A07 Dual Directional Coupler

Test Data

