



ANATECH ELECTRONICS, INC.

Manufacturer of RF & Microwave Filters and Products



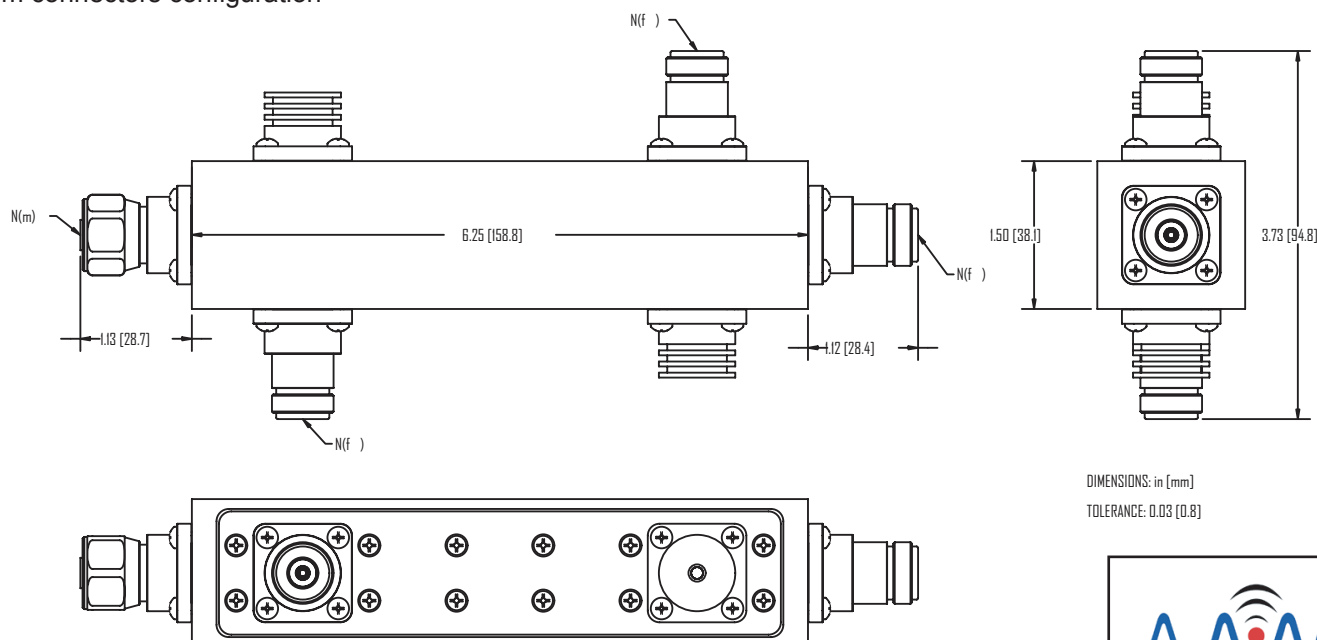
824-2170 MHz 30dB Dual Directional Coupler P/N: AM1497DC850

Frequency	824-2170 MHz	
Coupling Value, 824-960 MHz 1710-2170 MHz	Input to J1 or Output to J2	
	30 +/- 0.4 dB	
	30 +/- 0.5 dB	
Directivity 870 - 960 MHz, Input to J1 or 1710-217 MHz Output to J2	TYP 30	MIN 25
	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 Ohm	
Intermodulation IM3 (2 x 43 dBm carrier)	< -150 dBc	
Max. power	300 W AVE, 3KW Peak (at 20 °C ambient temperature)	
Termination Max. power	3 W AVE	
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 to Output Input or Output to 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)	



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 23.1 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. Customer connectors configuration and enhanced directivity models available.

- 300 W Average Power
- Low VSWR and Loss
- High Reliability, Low PIM
- Custom connectors configuration



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



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