

Miniature Air Dielectric Directional Couplers



RLC Electronics' miniature air dielectric directional couplers are rugged lightweight devices that offer lower insertion loss than comparable stripline units. The simplified construction allows for greater flexibility in

creating customized configurations. Any port can be used as the input with these symmetrical devices. The standard units are available with a choice of coupling values and frequency ranges and an optional termination.

Specifications ADC-¹⁻²⁻³

Model No	Frequency Range (GHz)	VSWR (Max)	Frequency Deviation(dB)	Loss Max (dB)
ADC-1020-	1.00-2.00	1.15	+/-0.75	.20
ADC-2040-	2.00-4.00	1.20	+/-0.75	.20
ADC-4080-	4.00-8.00	1.25	+/-0.75	.25
ADC-218-	2.00-18.00	1.50	+/-1.00	.60
ADC-418-	4.00-18.00	1.40	+/-1.00	.40
ADC-618-	6.00-18.00	1.35	+/-1.00	.35

Coupling (Nominal); 20 to 30dB, +/-0.5dB
Power: 100 watts average, 1KW peak
Impedance: 50 Ohms

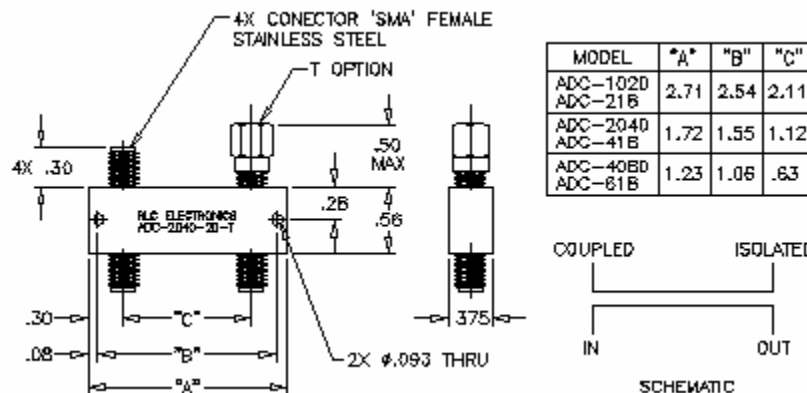
Connector Type: SMA female
Temperature: -55 deg C to +85 deg C
Environment: MIL-E-5400, Class 1A

To designate the coupler desired use:

- (1) 1020, 2040 etc for model number
- (2) Coupling value in dB. Any number between 20 and 30
- (3) "T" for removable termination, U for no termination.

Example: ADC-2040-20-T is a 20dB coupler, 2 to 4 GHz frequency band, with removable termination.

OUTLINE DRAWING



Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02. xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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