



SUB-MINIATURE COUPLERS, DIRECTIONAL WITH SMA FEMALE CONNECTORS

CA SERIES

GENERAL INFORMATION

Aeroflex-KDI's Miniature Stripline Couplers, Series CA are available in 6dB, 10dB, 20dB, and 30dB coupling values. These units feature high directivity and low VSWR and are conservatively rated to ensure the most reliable service and performance. The directional couplers on this page are unequalled in terms of size and performance. The volume of these couplers make them ideally suited for applications involving high density packaging.

GENERAL SPECIFICATIONS

Frequency Range .5GHz to 18GHz

RF Impedance 50 Ohms

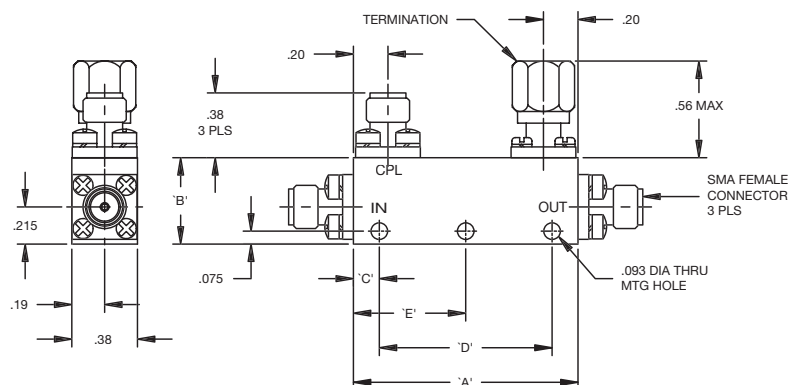
RF Power The Peak and Average power handling capability of the couplers apply if the main line is terminated in a 1.25 max VSWR for the 6 dB & 10 dB couplers and a 1.75 max VSWR for the 20 & 30 dB Couplers.

Operating Temperature -55°C to +85°C

Connectors SMA Female

NOTES

- 1) Rugged 4 hole connector construction insures superiority
- 2) For all 30 dB couplers "B" dimension is .55 inches
- 3) 50 Ohm termination is supplied on each unit delivered. Power rating is 1 Watt at +25°C.
- 4) Coupling includes frequency flatness & coupling measurement in reference to the input port.



CA SERIES OUTLINES (inches)

OUTLINE	A	B*	C	D	E
1	3.1	0.	0.8	1.5	-
2	3.4	0.5	0.95	1.5	-
3	2.5	0.5	0.6	1.3	-
4	1.8	0.55	0.43	0.94	-
5	1.4	0.5	0.5	0.4	-
6	1	0.5	-	-	0.5
7	1.3	0.5	-	-	0.65
8	0.9	0.5	-	-	0.45

* Note 2

ORDERING INFORMATION

X in the part number represents the coupling value.

6 = 6dB±1.0dB; 1 = 10dB±1.2dB; 2 = 20±1.2dB dB; 3 = 30dB±1.2dB

Examples: CA-516 = .5-1GHz 6dB Coupler

CA-513 = .5-1 GHz 30dB Coupler

Model No.	Frequency Range GHz	Coupling (Note 4) dB X=Coupling	Frequency Flatness (Note 4) dB	Min Directivity dB	Max Input/Output VSWR	Max Loss Above Coupling Loss dB	Max Peak Power kW	Max Avg. Power Watts	Outline
CA-51X	.5-1.0	X	± 0.75	20	1.2	0.15	3	50	1
CA-52X	.5-2.0	X	± 0.75	20	1.2	0.2	3	50	2
CA-55X	.75-1.5	X	± 0.75	20	1.2	0.2	3	50	3
CA-59X	1.0-2.0	X	± 0.75	20	1.2	0.2	3	50	4
CA-63X	1.5-3.0	X	± 0.75	20	1.2	0.2	3	50	5
CA-67X	2.0-4.0	X	± 0.75	20	1.25	0.2	3	40	6
CA-69X	2.0-8.0	X	± 0.75	17	1.3	0.3	2	20	7
CA-71X	2.6-5.2	X	± 0.75	20	1.25	0.25	3	40	8
CA-75X	4.0-8.0	X	± 0.75	18	1.25	0.3	3	40	8
CA-77X	6.0-18.0	X	± 0.75	14	1.45	0.55	2	20	8
CA-79X	7.0-12.4	X	± 0.5	17	1.3	0.45	2	30	8
CA-83X	8.0-16.0	X	± 0.7	15	1.4	0.5	2	30	8
CA-87X	8.0-18.0	X	± 0.7	14	1.45	0.55	2	20	8
CA-91X	12.4-18.0	X	± 0.5	15	1.4	0.55	2	30	8