CA-83X Directional Couplers



A passion for performance.

Specifications:

Parameter	Specification	Units
Frequency Range (Min)	8.0 - 16.0	GHz
Frequency Flatness	±0.70	dB
Directivity (Min)	15	dB
Input / Output VSWR (Max)	1.4	Ratio
Loss Above Coupling (Max)	0.50	dB
Peak Power (Max)	2	kW
Avg. Power	30	Watts

Outline (inches)	"A"	"В"	"C"	"D"	"E"
8	0.9	0.5	-	-	0.45

Notes:

- 1. Rugged 4 hole connector construction insures superiority.
- 2. For all 30dB 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. Coupling is standard on these units.

Environmental Specifications:

Designed to meet:

MIL-E-5400, MIL-STD-202, MIL-E-16400 Operating Temp: -55°C to +125°C Storage Temp: -65°C to +150°C Humidity: MIL-STD-202F, M103, Cond B Shock: MIL-STD-202F, M213, Cond B Altitude: MIL-STD-202F, M105, Cond B Vibration: MIL-STD-202F, M204, Cond B Thermal Shock: MIL-STD-202F, M107, Cond A Temperature Cycle: MIL-STD-202F, M105C, Cond D



Screening:

Internal Visual per MIL-STD-883, Method 2017 Temperature Cycle: -65 $^{\circ}\text{C}$ to +100 $^{\circ}\text{C}$, 10 cycles

Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

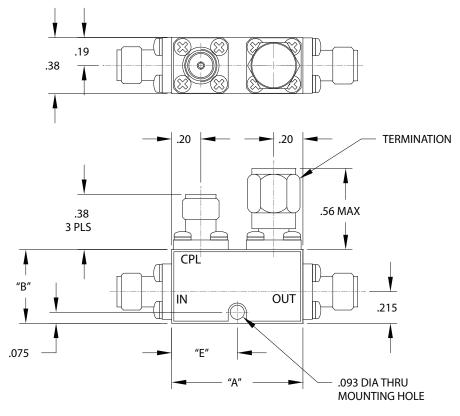
Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.

Mechanical Specifications:

Case Style:	CA Outline
Connectors:	SMA Female per MIL-C-39012
Connector Control:	Micro-D 21 Pin
Bias & Control Pins:	ø0.02" x 0.15" long
Weight:	19g max
Mounting:	ø0.10" through holes (4) places

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OUTLINE CASE STYLE CA

Part Number Ordering Information:

Example: CA-83X:	CA-836 X in the part number represents coupling value
6:	6dB+/-1.0dB
1:	10dB+/-1.2dB
2:	20dB+/-1.2dB
3:	30dB+/-1.2dB

Aeroflex Control Components

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.