

# CA-91X

## Directional Couplers



### Specifications:

Parameter	Specification	Units
Frequency Range (Min)	12.4 – 18.0	GHz
Frequency Flatness	±0.50	dB
Directivity (Min)	15	dB
Input / Output VSWR (Max)	1.4	Ratio
Loss Above Coupling (Max)	0.55	dB
Peak Power (Max)	2	kW
Avg. Power	30	Watts

Outline (inches)	"A"	"B"	"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 °C to +100 °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

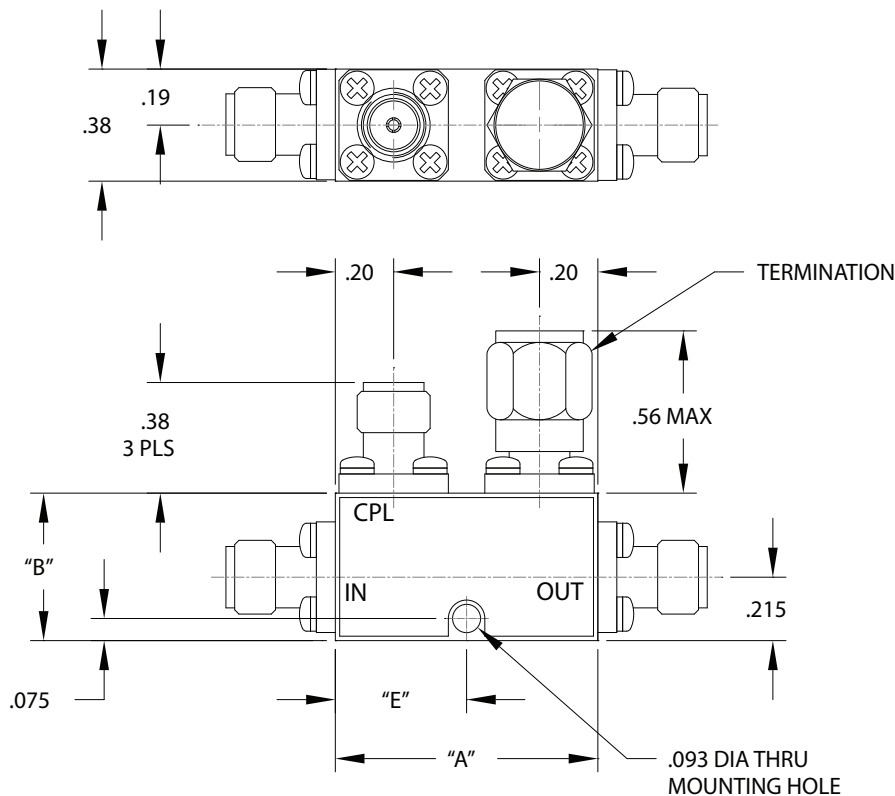
Bias & Control Pins: ø0.02" x 0.15" long

Weight: 19g max

Mounting: ø0.10" through holes (4) places



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OUTLINE CASE STYLE CA

### Part Number Ordering Information:

Example:	CA-916
CA-91X:	X in the part number represents coupling value
6:	6dB+/-1.0dB
1:	10dB+/-1.2dB
2:	20dB+/-1.2dB
3:	30dB+/-1.2dB

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