3 dB Hybrid Combiner, CA-84K Series

Broadband Model for Extreme Outdoor Environments
617 - 2,700 MHz, 7-16 & 4.3-10 Connectors
Rev. C

- Broad Frequency Band
- 80 W CW Power per Input
- High Isolation
- Low VSWR and loss
- Passes 30 day Salt Fog Test
- Moisture sealed to IP68
- Convenient Connector spacing

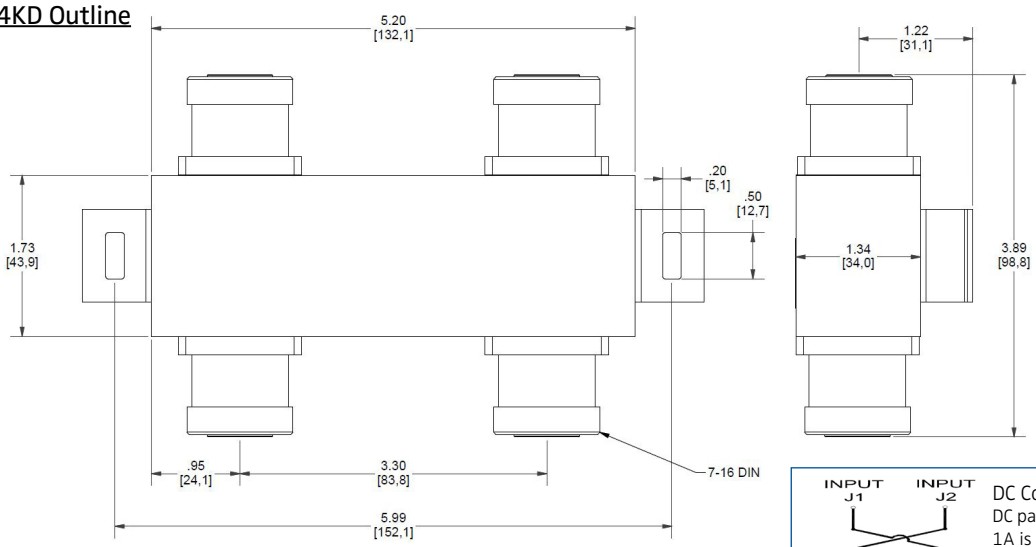
Microlab Hybrid Couplers have been designed to meet the special needs of the wireless market. They are most commonly used to combine two wireless carriers in the band to a single antenna feed or distribution cable. This requires the termination of one output port in 50Ω and results in a 3 dB loss in each signal. In situations where two similar feeds are required, as required for an in-building application, both outputs may be used eliminating the need for a termination and the 3 dB loss. .

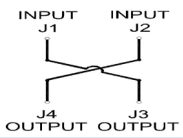
The CA-84K Series is designed for harsh ourtdoor applications in corrosive salt fog environments.

Coupling:	3 dB nominal
PIM:	<-161 dBc (2 x +43 dBm)
Impedance:	50Ω nominal
Environment:	-35 to +65°C, IP68 30 day Salt Fog IAW ASTM-B117
Finish:	RoHS compliant
Housing:	Black Anodized Passivated aluminum
Connectors:	Triplate
Weight	1.6lbs.(0.73kg)

Model Number 7-16 Conn	Model Number 4.3-10 Conn	Frequency Range, MHz	Isolation dB	VSWR Max	Sensitivity dB	Dissipative Loss, dB	Power/Input max. Avg.	Power/Input max. Peak
CA-84KD	**CA-84KE**	617 - 694 694 - 2,700	>30	1.20:1	±0.80dB ±0.40dB	<0.2 dB	80W	1.5 kW

CA-84KD Outline





DC Continuity
DC path for up to 1A is maintained between J1 and J3 & between J2 and J4.

Note: Specifications are subject to change without prior notification.

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