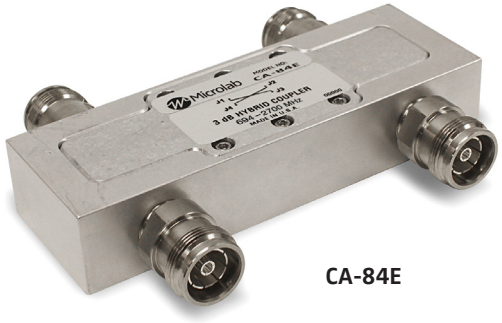
3 dB Hybrid Coupler, CA-84 series

7/16 DIN, 4.3-10 & N
Wide Band from 694 - 2,700 MHz
Rev. I

- Standard Bandwidth for commercial wireless applications
- Guaranteed Low PIM
- 30dB Port to Port Isolation
- Models for Outdoor Environments
- Low VSWR and Dissipative Loss
- Rail Standard EN 50155:2007 (Class T1) Certified
- High Reliability, Moisture sealed
- Easy mounting to pole or wall



CA-84E

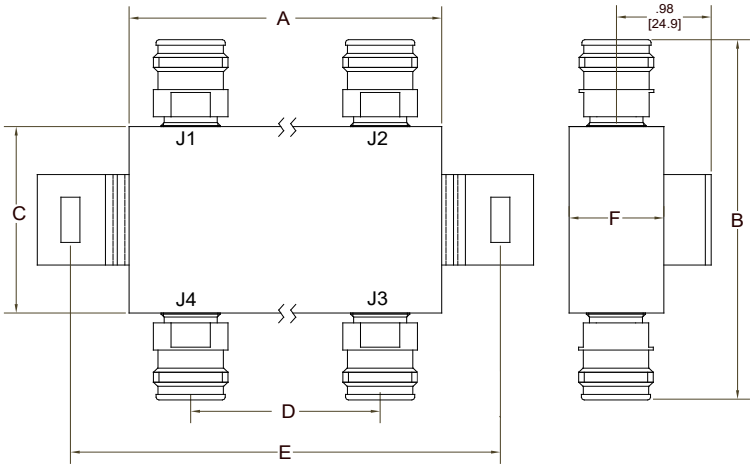
These Hybrid Couplers have industry leading 30dB port to port isolation. They are most commonly used to combine two wireless carriers in the band to a single antenna feed or distribution cable. This requires the low PIM termination on one output port and results in a 3 dB loss in each signal. In situations 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. For 200W power see Microlab CA-86 series.

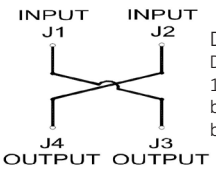
This coupler is a 90° Quadrature Hybrid. Connector spacing allows controlled wrench tightening. For outdoor environments add suffix 'P' to Model No. (e.g. **CA-84NP**).

Coupling:	3 dB nominal
Impedance:	50Ω nominal
Environment:	-35 to +65°C
PIM:	-161 dBc (-118 dBm) (2 tones at +43 dBm)
Housing Finish:	
Indoor/IP64:	Standard model Passivated Al.
Outdoor/IP67:	Painted Add P to Model No.
RoHS	Compliant
Connectors:	Triplate

Model Number			Frequency	Isolation	VSWR	Sensitivity	Dissipative	Power/Input max.	
N-type	7/16 DIN	4.3-10	Range, MHz	dB	Max	dB	Loss, dB	Avg.	Peak
CA-84N	CA-84D	CA-84E	694 - 2,700	>30	1.20:1	±0.40dB	<0.2 dB	80W	1.5 kW

CA-84 Outline





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

Dimensions and Weight:
Inches (mm); Wt: oz (g) nom.

A	5.20 (132)		
C	1.73 (44)		
D	3.30 (84)		
E	5.99 (152)		
F	1.00 (25)		
	CA-84E	CA-84D	CA-84N
B	3.65(93)	3.46(88)	3.21(82)
Wt.	19 (528)	25(700)	23 (644)

All dimensions ±0.60 inches unless otherwise noted. Dimensions in mm are for reference only.

Note: Specifications are subject to change without prior notification.

08JUL2018

Microlab, A Wireless Telecom Group Company, 25 Eastmans Road, Parsippany, NJ 07054
Tel: (973) 386-9696 • sales@microlabtech.com • www.microlabtech.com • Fax: (973) 386-9191