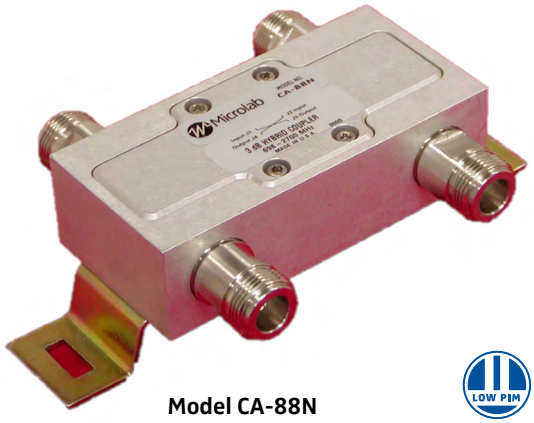
3 dB Hybrid Coupler, CA-88 series

Broadband, 617 - 2,700 MHz
4.3-10 and N-type
Rev. F

- Compact hybrid coupler supports combining two signals in 617-2700MHz.
- Rail standard EN 50155:2007 (Class T1)
- Guaranteed low PIM
- 200 Watt/input continuous avg. power
- High isolation, low VSWR and loss
- IP67 rated
- Convenient connector spacing
- RoHS compliant



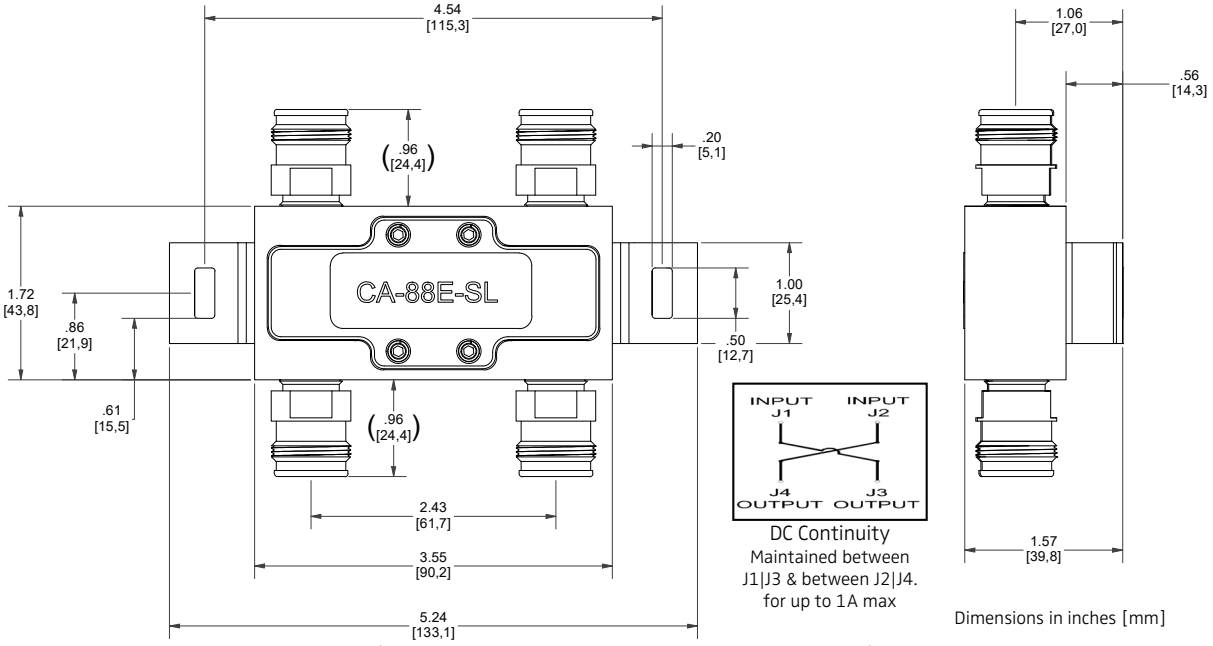
Model CA-88N

Part No.	Connector All Ports	Weight oz (g) nom.
CA-88E	4.3-10 (f)	14 (392)
CA-88N	N-type (f)	12 (336)

Microlab CA-88 series hybrid 2x2 couplers have been designed for mobile networks that require combining signals in the 617 to 2700 MHz band. It is most commonly used to combine two wireless carriers cost-efficiently without a guard band to a single antenna feed or distribution cable. It requires terminating one output port and results in a 3 dB loss in each input signal. Both outputs may be used when two similar feeds are required, eliminating the need for a termination and the 3 dB coupling loss. For low PIM terminations, see the Microlab TK series. Mechanically CA-88 series is designed with passivated aluminum housings, moisture sealed to meet IP67. Connectors are spaced to allow controlled wrench tightening.

Frequency:	617 - 2700 MHz
VSWR:	< 1.20:1, All ports
Isolation:	>25 dB
Coupling/Loss:	
617-800 MHz	3.1 ± 0.8dB
800-2500MHz	3.1 ± 0.5dB
2500-2700 MHz	3.1 ± 0.8dB
PIM:	-161 dBc (-118 dBm) min.
(Tested with 2x 1900 MHz, +43 dBm tones @ ambient)	
Impedance:	50Ω nominal
Power/Input:	200W avg, 1.5kV pk.
Environment:	-25°C to +70°C, IP67
Housing:	RoHS compliant Aluminum
Connectors:	Triplate
Dimensions:	3.55 x 1.72 x 1.01 in [90.2 x 43.8 x 25.6 mm]

Mechanical Outline



Note: Specifications are subject to change without prior notification.

10CT2021

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