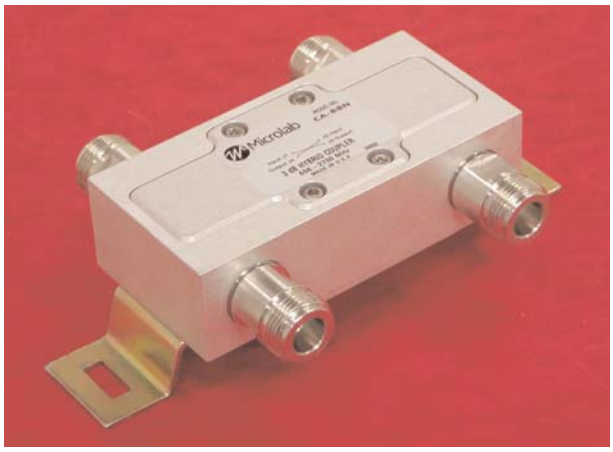
3 dB Hybrid Coupler, CA-88 series

Wireless Band Version, 7-16 or N-connectors
Broadband, 698 - 2,700 MHz

- Compressed Size Hybrid Combiner
- High Isolation, Low VSWR and Loss
- Low specified PIM
- Multi Band Range for combining Cellular, GSM, PCS, UMTS and LTE
- 100 Watt/Input Average Power Rating
- High Reliability, Moisture sealed
- Convenient connector spacing



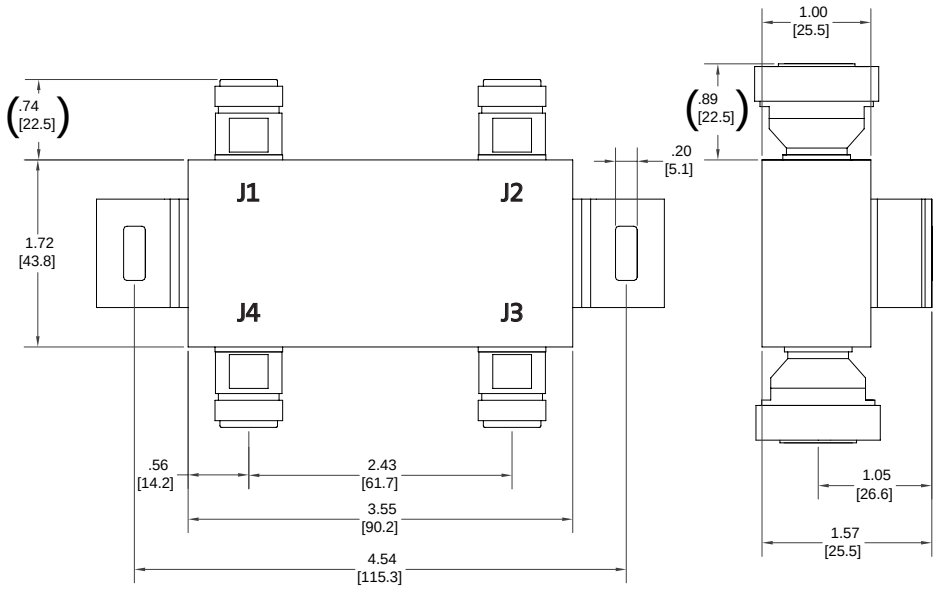
Model Number	Connectors	Frequency Range, MHz	VSWR all ports	Power/ Input	Weight oz (g) nom
CA-88D	7-16 (f)	698 - 2700	<1.25:1	100W max	14 (392)
CA-88N	N (f)	698 - 2700	<1.20:1	100W max	12 (336)

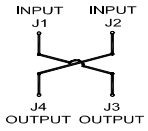
*Also available as 3 port with 3 and 10W integrated load as CA-88GN and CA-88HN

This smaller sized Hybrid has been designed to meet the special needs of the wireless market. Hybrids are most commonly used to combine two wireless carriers 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. Note this Coupler is not a 90° Quadrature Hybrid, which is available as Model CA-84N with 30 dB of isolation.

Mechanically they are passivated aluminum housings, moisture sealed for outside applications to meet IP65. Connectors are spaced to allow controlled wrench tightening. (12/10)

Frequency Range:	698 - 2700 MHz
Isolation:	>25 dB
Coupling/Loss:	
800-2500MHz	3.1 ± 0.5dB
698-2700 MHz	3.1 ± 0.8dB
PIM:	<-150 dBc (at 2 x +43 dBm)
Impedance:	50Ω nominal
Power/Input:	100W avg, 1.5kV pk.
Environment:	-25°C to +70°C, IP65
Housing:	RoHS compliant Al
Connectors:	Triplate





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

J1 is replaced by a load in Models CA-88GN and CA-88HN

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

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