

- ◆ Guaranteed PIM performance
- ◆ High Isolation, Low VSWR and loss
- ◆ Dual Band Range for Cellular, PCS and UMTS
- ◆ 400 Watt Average Power Rating
- ◆ High Reliability, Moisture sealed
- ◆ RoHS compliant
- ◆ Convenient connector spacing and easy mounting to pole or wall



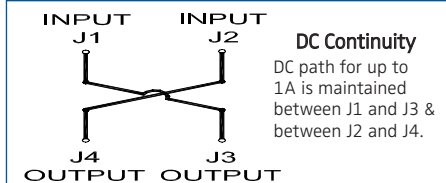
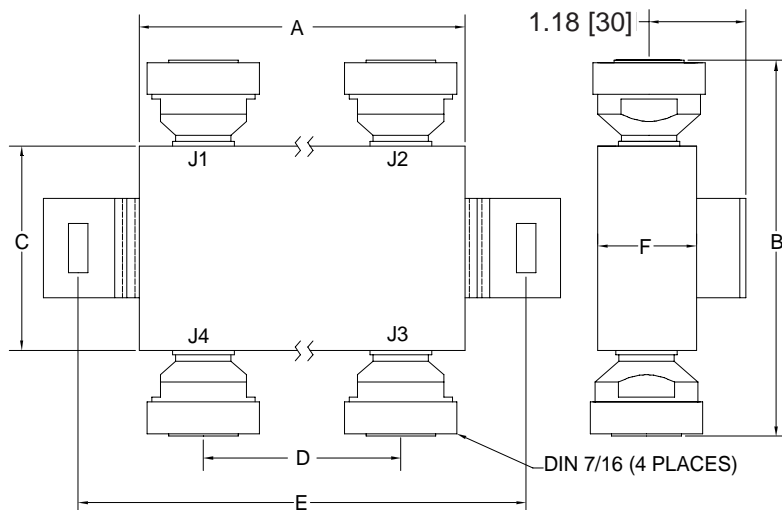
This Hybrid Coupler has been designed to meet the special needs of the higher power needs of the wireless market. The most common use is to combine two wireless carriers in the band to a single antenna feed or distribution cable. This requires the termination of one output port in 50Ω and results in a 3 dB loss in each signal. Note that the termination used must have a return loss of at least 25 dB and PIM below -150 dBc for the isolation and PIM performance to be maintained. A high power cable load appropriate to the power dissipation, is recommended to maintain this performance.

Mechanically they are passivated aluminum housings, moisture sealed for outside applications to meet IP65. Connectors are spaced to allow controlled wrench tightening. (8/08)

Model	Frequency Range, MHz	Isolation dB	VSWR Max	Max. Power Avg.	Max. Power Peak	Connector
CA-86D	800 - 2,500	>20	1.20:1	*400W	1.5 kW	7-16(f)
CA-86N	800 - 2,500	>20	1.20:1	*400W	1.5 kW	N(f)

*200W per input max.

Coupling: 3 dB nominal
Sensitivity: ±0.5 dB
Dissipative Loss: 0.3 dB max.
Impedance: 50Ω nominal
Environment: -35°C to +65°C, IP65
PIM (Intermod): <-150 dBc (+43dBm x2)
Housing: Passivated aluminum
Connectors: Triplate, 7-16 mm (f)



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

	CA-86D	CA-86N
A	5.19 [132]	5.19 [132]
B	3.89 [99]	3.64 [93]
C	2.12 [54]	2.12 [54]
D	3.33 [85]	3.33 [85]
E	5.99 [152]	5.99 [152]
F	1.25 [32]	1.25 [32]
Wt.	30 [840]	29 [810]

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