♦ **Minimum Loss, 4 hybrid design**
♦ **High Isolation, Low VSWR**
♦ **Multi-Band Range for Tetra, GSM, Cellular, PCS, UMTS & W-LAN**
♦ **100 W per Input Average Power**
♦ **High Reliability, RoHS compliant**
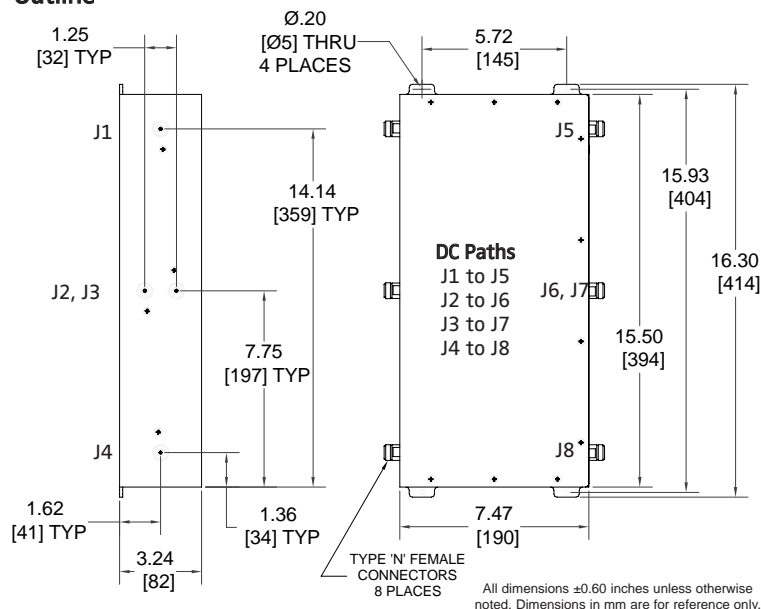♦ **Guaranteed PIM performance**
♦ **Portable package**

Model Number/Conn 7-16 DIN	N-conn.	Frequency Range, MHz	Isolation dB	Coupling dB	VSWR Max
CM-13D	CM-13N	350 - 1,500	>25 dB	6.3 ± 1.0	1.30:1
		1,500 - 2,500	>20 dB	6.5 ± 1.0	1.35:1
		2,500 - 2,700	>18 dB	6.6 ± 1.1	1.70:1
		2,700 - 4,900	>15 dB	7.0 ± 1.3	2.00:1
		4,900 - 5,850	>15 dB	7.2 ± 1.5	1.40:1
CM-14D	CM-14N	350 - 1,500	>25 dB	6.3 ± 1.0	1.30:1
		1,500 - 2,500	>20 dB	6.5 ± 1.0	1.35:1
		2,500 - 2,700	>18 dB	6.6 ± 1.1	1.70:1

These Combiner Boxes have been designed to meet the special co-siting needs of the wireless market. The standard version is CM-14 covering 350 - 2,700 MHz while the CM-13 extends the bandwidth to 350 - 5,850 MHz.

They are most commonly used to combine up to four wireless carriers in the operating band to single or multiple antenna feeds or distribution cables. In situations where four similar feeds can be utilized, as required in many in-building applications, all four outputs may be used, eliminating the need for terminating unused ports and the 6 dB hybrid loss.

Port return loss and isolation has been optimized while passive intermodulation (PIM) is minimized. Input and output connectors have been separately grouped for convenient connection and each connector is spaced to allow controlled wrench tightening of connectors. (07/11)

Outline

1.25 [32] TYP

Ø.20 [Ø5] THRU 4 PLACES

5.72 [145]

J1

J2, J3

J4

14.14 [359] TYP

7.75 [197] TYP

1.62 [41] TYP

3.24 [82]

1.36 [34] TYP

DC Paths
J1 to J5
J2 to J6
J3 to J7
J4 to J8

J5

J6, J7

J8

15.93 [404]

16.30 [414]

15.50 [394]

7.47 [190]

TYPE 'N' FEMALE CONNECTORS 8 PLACES

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

Power per input:	100W avg., 3.0 kW peak
Impedance:	50Ω nominal
Environment:	-15°C to +65°C, Indoor
PIM (Intermod):	<-150 dBc (+43dBm x2)
	<-155 dBc to order
Finish: Housing:	Passivated aluminum
Connectors:	triplate, (f-f)
Weight:	14 lbs (6.4 kg) nom.