4 x 4 Hybrid Combiner, CM-14 Series

Broadband Low Loss Hybrid Combiner
350 - 5,925 MHz, 4.3-10, 7/16 DIN & N-type
Rev. F

- Ultra wide-band to support from TETRA to 6GHz LTE-LAA
- Connects 4 inputs to 4 outputs
- Guaranteed Low PIM
- High Isolation & Low VSWR
- 200 Watt per Input Continuous Average Power up to 2.1 GHz†
- IP67 Rated
- High Reliability, RoHS compliant

Model Number 7-16 DIN	4.3-10	N-Type	Frequency Range, MHz	Isolation dB	Coupling dB	VSWR Max
CM-14D	CM-14E	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
			2,700 - 4,900	>15 dB	7.0 ± 1.3	2.00:1
			4,900 - 5,925	>15 dB	7.2 ± 1.5	1.40:1

Microlab CM-14 series hybrid combiners have been designed for LTE-LAA deployments. The CM-14 series now covers an ultra-wide bandwidth of 350 - 5,925 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. Unused input and output ports should be terminated with low PIM loads.

Return loss and isolation have 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.

Also available in rack mount chassis as CM-R14

Frequency:	350-5925 Mhz
PIM:	<-160 dBc (-117 dBm) (Tested with 2 tones at +43 dBm)
Power:	200W up to 2.1 GHz† 3kW peak
Impedance:	50Ω nominal
Environment:	-15°C to +65°C, IP67
Housing:	Passivated aluminum
Connectors:	Triplate, (f-f)
Weight:	14 lbs (6.4 kg)

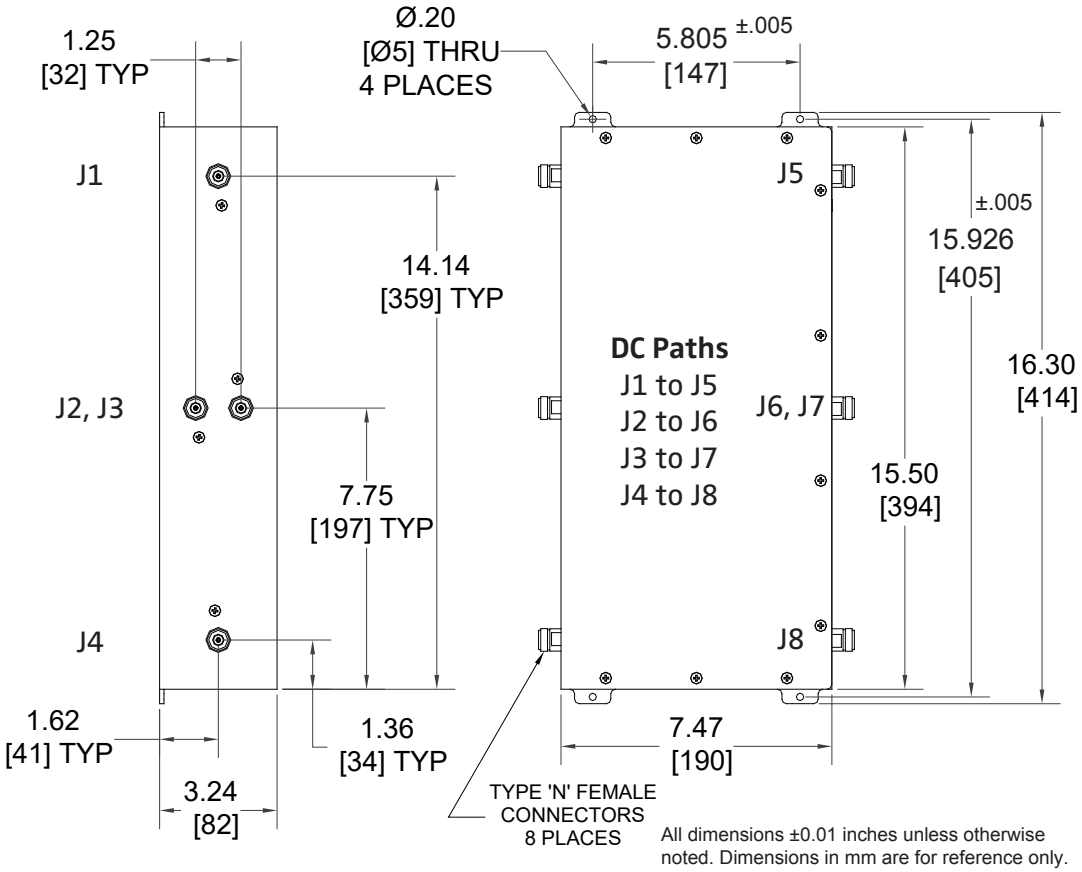
† De-rated by 13.3 W per 1 Ghz from 2.1 to 5.85 Ghz (max 150 Watts/input at 5.85 GHz)

Note: Specifications are subject to change without prior notification.

05MAR2018

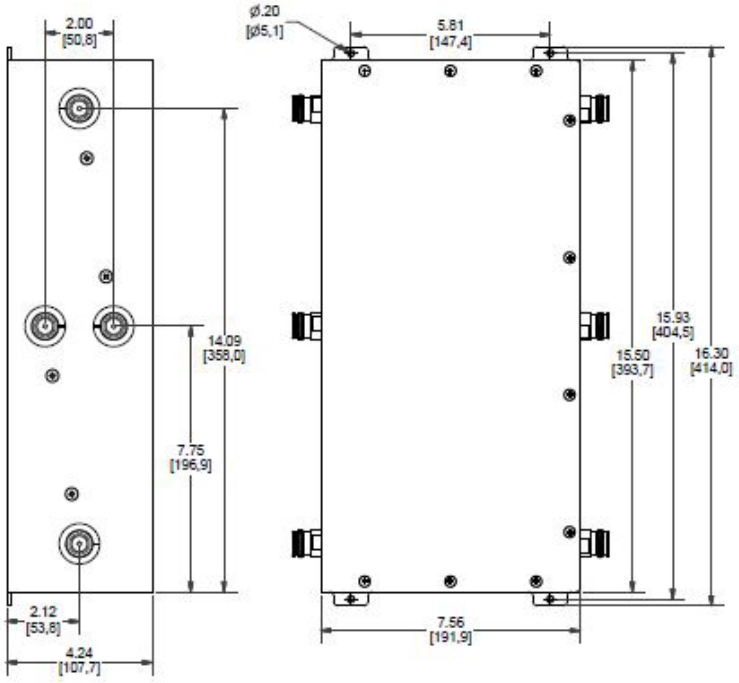
Microlab, A Wireless Telecom Group Company, 25 Eastmans Road, Parsippany, NJ 07054
Tel: (973) 386-9696 • sales@microlabtech.com • www.microlabtech.com • Fax: (973) 386-9191

CM-14N Outline



All dimensions ±0.01 inches unless otherwise noted. Dimensions in mm are for reference only.

CM-14E and CM-14D Outline



Note: Specifications are subject to change without prior notification.