

- ◆ Ultra-wideband for 5G Small Cell and D-RAN applications
- ◆ Guaranteed Low PIM
- ◆ High Isolation
- ◆ 150 Watt per Input
- ◆ IP67 Rated
- ◆ RoHS compliant



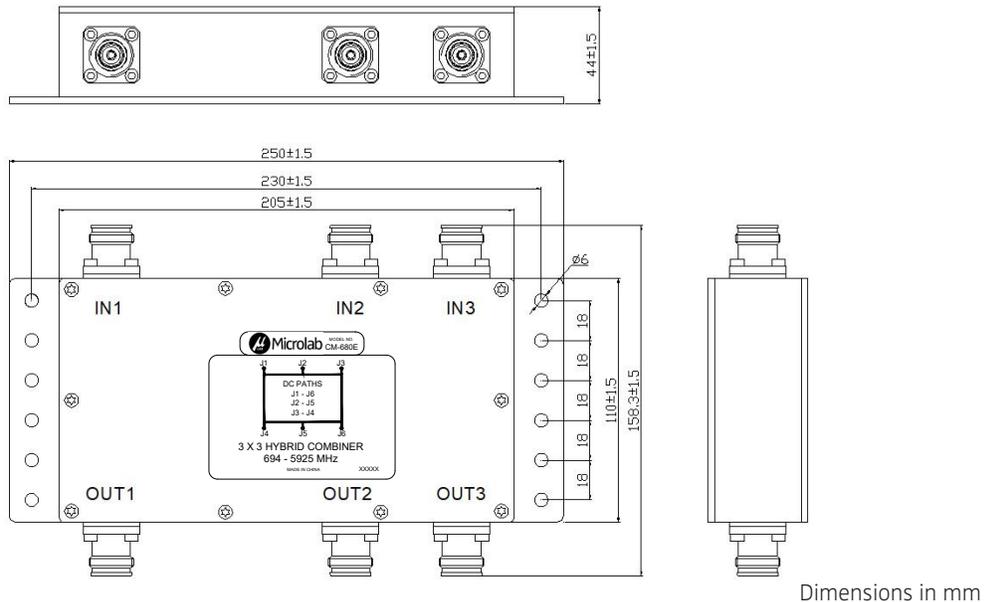
Microlab CM-680E hybrid combiner has been designed for wideband 5G deployments. The 3x3 hybrid covers an ultra-wide bandwidth of 617 - 5,925 MHz with small size for easier concealment. The hybrid combiner is most commonly used to combine up to three wireless carriers in the operating bands to multiple antenna feeds or distribution cables. Unused input and output ports should be terminated with low PIM loads.

VSWR and isolation have been optimized while passive intermodulation (PIM) is minimized. Input and output 4.3-10 connectors have been separately grouped for convenient connection.

Frequency:	617-5925 MHz
Power/Input:	150 W avg
PIM:	-161 dBc (-118 dBm) min. (Test with 2x +43 dBm tones)
Impedance:	50Ω nom.
Temperature:	-35°C to +65°C
Ingress Protection:	IP67 Rated
Housing Finish:	Gray Paint
Connectors:	4.3-10(f) Triplate
Dimensions:	9.25 x 4.33 x 1.73 inches [235 x 110 x 44 mm]

Model No.	Frequency (MHz)	Coupling (dB)	Isolation (dB) min	Return Loss (dB) min	Weight nom. lbs [kg]
CM-680E	617-4200	5.1 ± 1.5	≥20	≥17.7	4.90 [2.22]
	4200-5925			≥16.5	

CM-680E Outline



Dimensions in mm

Note: Specifications are subject to change without prior notification.

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