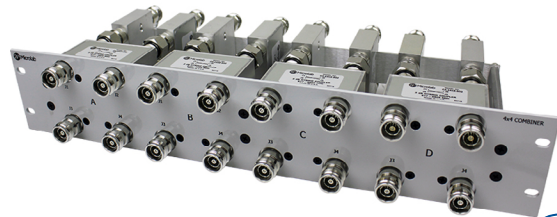


- ◆ Rackmount 2 & 4-channel 4x4 Hybrid for LAA & 5G NR-U D-RAN applications
- ◆ Guaranteed low PIM
- ◆ High Isolation and Low VSWR
- ◆ 100 Watt per Input Continuous Average Power up to 2.6 GHz[†]
- ◆ IP67 Rated
- ◆ RoHS compliant



CM-141E-4R



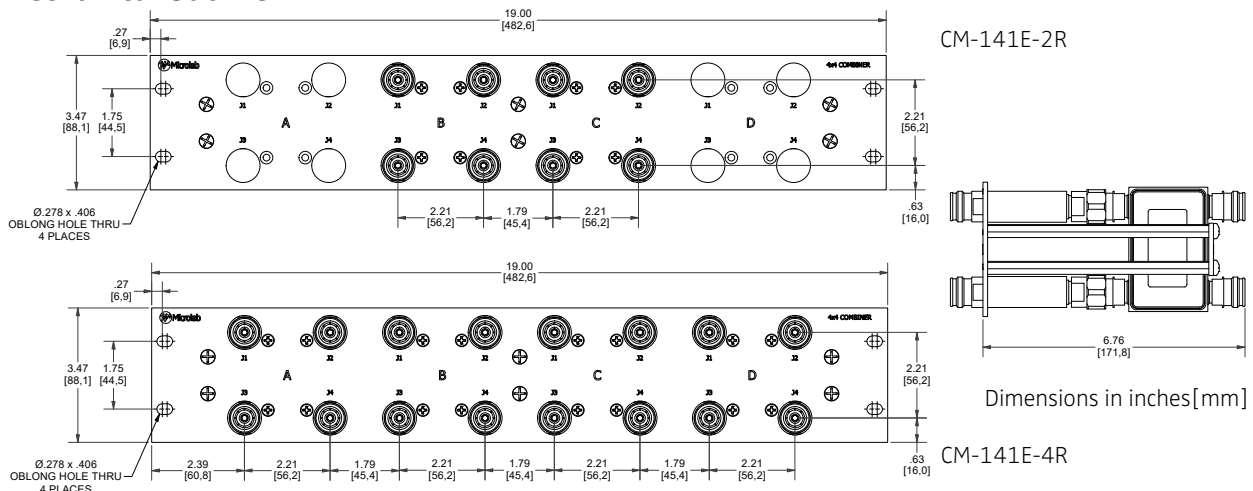
Microlab CM-141E-xR hybrid combiner trays have been designed with relied upon Microlab compact hybrid combiner CM-141E for 5G rack mount applications, especially for ultra-wideband MCC modular neutral host deployments. The hybrid combiner covers an ultra-wide bandwidth of 617 - 5,925 MHz. It is most commonly is used to combine up to four wireless carriers in the operating band to multiple antennae feeds or distribution cables. VSWR and isolation have been optimized while passive intermodulation (PIM) is minimized.

The two rack mount variants enable 2x2 MIMO and 4x4 MIMO configurations in compact 2RU EIA form factor. Unused input and output ports should be terminated with low PIM loads.

Frequency: 617-5925 MHz
 PIM: -160 dBc (-117 dBm) min.
 (Test with 2x 1900MHz, +43 dBm tones @ ambient)
 Power: 100W up to 2.6 GHz[†]
 3kW peak
 Impedance: 50Ω nom.
 Environment: -15°C to +65°C, IP67
 Connectors: 4.3-10 Triplate (f)
 Rack Size: 2RU
 Dimensions: 19.00 x 6.76 x 3.47 inches
 [482.6 x 171.8 x 88.1 mm]
 Weight: 8.5 lbs (3.7 kg) for CM-141E-2R
 14.3 lbs (6.5 kg) for CM-141E-4R
[†] De-rated by 12 W per 1 GHz from 2.6 to 5.925 GHz
 (max 60 Watts/input at 5.925 GHz)

Model	Channels	Config.	Frequency MHz	Isolation dB	Coupling dB	VSWR max.
CM-141E-2R	2	2x2 MIMO	617-698	>25	6.5 ± 2.0	1.25:1
			698-1500		6.5 ± 1.2	
			1500-2700	>22	6.5 ± 1.2	
CM-141E-4R	4	4x4 MIMO	2700-3800	>20	6.5 ± 1.2	1.30:1
			3800-4800	>18	6.8 ± 1.6	1.50:1
			4800-5150			1.65:1
			3800-5925			1.50:1

Mechanical Outline



Note: Specifications are subject to change without prior notification.

4NOV2021