

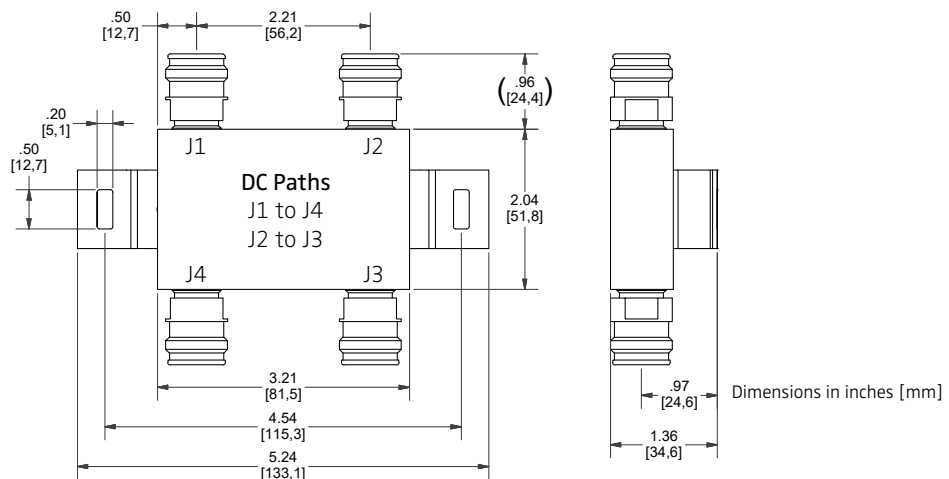
- ◆ Wide-band coupler to enable 5G network deployments with Carrier aggregation
- ◆ Guaranteed Low PIM
- ◆ High Isolation and Low VSWR
- ◆ 100 Watt per Input Continuous Average Power up to 2.6 GHz[†]
- ◆ IP67 Rated
- ◆ RoHS compliant



Microlab hybrid coupler CA-141E has been for 5G networks that require combining signals in 617 to 5,925 MHz band. It is most commonly used to combine two wireless carriers in the operating band to a single antenna feed or distribution cable. This requires terminating one output port and results in a 3 dB loss in each input signal. In situations where two similar feeds are required, both outputs may be used, eliminating the need for a termination and the 3 dB loss. For low PIM terminations, see Microlab TK series.

Frequency Range (MHz)	Coupling & Loss (dB)	Isolation (dB)	VSWR (max.)	
617-698	3.2 ± 1.2	>25	1.20:1	Coupling: 3 dB nom. Power/Input: 100 W up to 2.6 GHz [†] , 3.0 kW pk. Impedance: 50 Ω nom. PIM: > -161 dBc (-118 dBm) (Tested with 2x +43dBm @ 25°C) Housing: Passivated aluminum Connectors: 4.3-10(f), Triplate Environment: -40°C to +70°C, IP67 Weight, nom: 0.75 lb (340.2 g) [†] De-rated by 12 W per 1 Ghz from 2.6 to 5925 Mhz (max 60 Watts/input at 5925 MHz)
698-2700	3.3 ± 0.8			
2700-4900	3.5 ± 0.9	>18	1.30:1	
4900-5925	3.6 ± 1.0			

Mechanical Outline



Note: Specifications are subject to change without prior notification.

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