

- ◆ Ultra wide-band to support commercial wireless applications like LTE-LAA
- ◆ Guaranteed Low PIM
- ◆ High Isolation and Low VSWR
- ◆ 100 Watt per Input Continuous Average Power up to 2.6 GHz<sup>†</sup>
- ◆ IP67 Rated
- ◆ High Reliability, RoHS compliant



Microlab Hybrid Couplers have been designed LAA deployments. They are most commonly used to combine two wireless carriers in the operating band to a single antenna feed or distribution cable. This requires the termination of one output port in 50Ω and results in a 3 dB loss in each signal. In situations where two similar feeds are required, as required for an in-building application, both outputs may be used eliminating the need for a termination and the 3 dB loss. For low PIM terminations, see Microlab TK series.

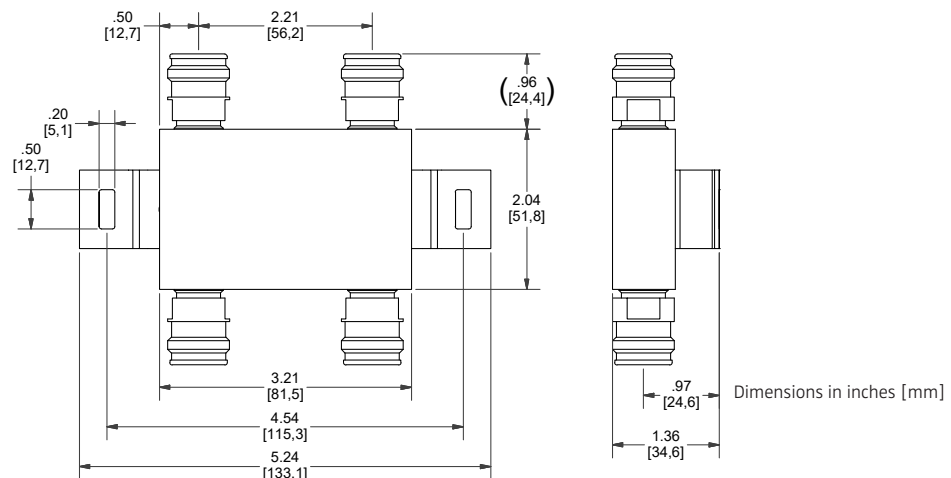
The CA-141E has been designed for systems requiring signal combining over all the wireless bands from 617 to 5,925 MHz. Isolation has been maximized and passive intermodulation (PIM) minimized.

Model	Connector	Frequency Range, MHz	Isolation dB	Coupling & Loss, dB	VSWR Max
CA-141E	4.3-10	617 - 698	>25 dB	3.2 ± 1.2	1.20:1
		698 - 2,700	>25 dB	3.3 ± 0.8	1.20:1
		2,700 - 4,900	>18 dB	3.5 ± 0.9	1.30:1
		4,900 - 5,925	>18 dB	3.6 ± 1.0	1.30:1

Coupling:	3 dB nominal
Power/Input:	100W up to 2.6 GHz <sup>†</sup> 3.0 kW pk.
Impedance:	50Ω nom.
PIM:	> -161 dBc (-118 dBm) (Tested with 2x +43dBm)
Housing:	Passivated aluminum
Connectors:	4.3-10(f), Triplate
Environment:	-40°C to +70°C, IP67
Weight, nom:	0.75 lb (340.2 g)
<sup>†</sup> De-rated by 12 W per 1 GHz from 2.6 to 5925 MHz (max 60 Watts/input at 5925 MHz)	

## Mechanical Outline



Note: Specifications are subject to change without prior notification.

5AUG2019