

- ◆ Ultra wide-band to support TETRA to LAA applications
- ◆ Guaranteed Low PIM
- ◆ High Isolation and Low VSWR
- ◆ 200 Watt per Input Continuous Average Power up to 2.1 GHz[†]
- ◆ Meets European Rail Standard EN50155:2001 (Class T3)
- ◆ IP67 Rated
- ◆ High Reliability, RoHS compliant



CA-14E



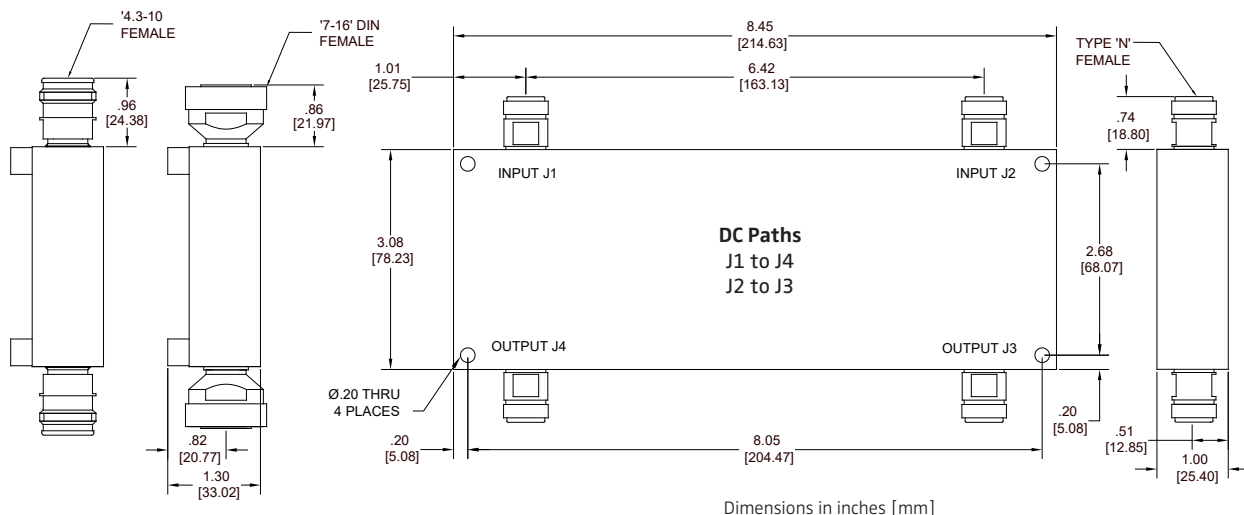
Microlab Hybrid Couplers have been designed LAA deployments. They are most commonly used to combine two wireless carriers in the operating band to a single antenna feed or distribution cable. This requires the termination of one output port in 50Ω and results in a 3 dB loss in each signal. In situations 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-14 series has been designed for systems requiring signal combining over all the wireless bands from 350 to 5,925 MHz. Isolation has been maximized and passive intermodulation (PIM) minimized.

Model Number/Conn	Frequency Range, MHz	Isolation dB	Coupling & Loss, dB	VSWR Max
7/16 DIN	N	4.3-10		
CA-14D CA-14N CA-14E	350 - 1,500	>25 dB	3.2 ± 0.5	1.20:1
	1,500 - 2,500	>20 dB	3.4 ± 0.5	1.30:1
	2,500 - 2,700	>18 dB	3.5 ± 0.7	1.50:1
	2,700 - 4,900	>18 dB	3.6 ± 0.8	1.50:1
	4,900 - 5,925	>18 dB	3.6 ± 1.0	1.50:1

Coupling:	3 dB nominal
Power/Input:	200W up to 2.1 GHz [†] , 3.0 kW pk
Impedance:	50Ω nominal
Environment:	-40°C to +70°C, IP67
PIM (Intermod):	-161 dBc (-118 dBm) (Tested with 2x +43dBm)
Finish: Housing:	Passivated aluminum
Connectors:	Triplate, (f)
Weight, nom:	2.65 lb., 1.20 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)	

Mechanical Outline



Note: Specifications are subject to change without prior notification.

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