

- ◆ 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



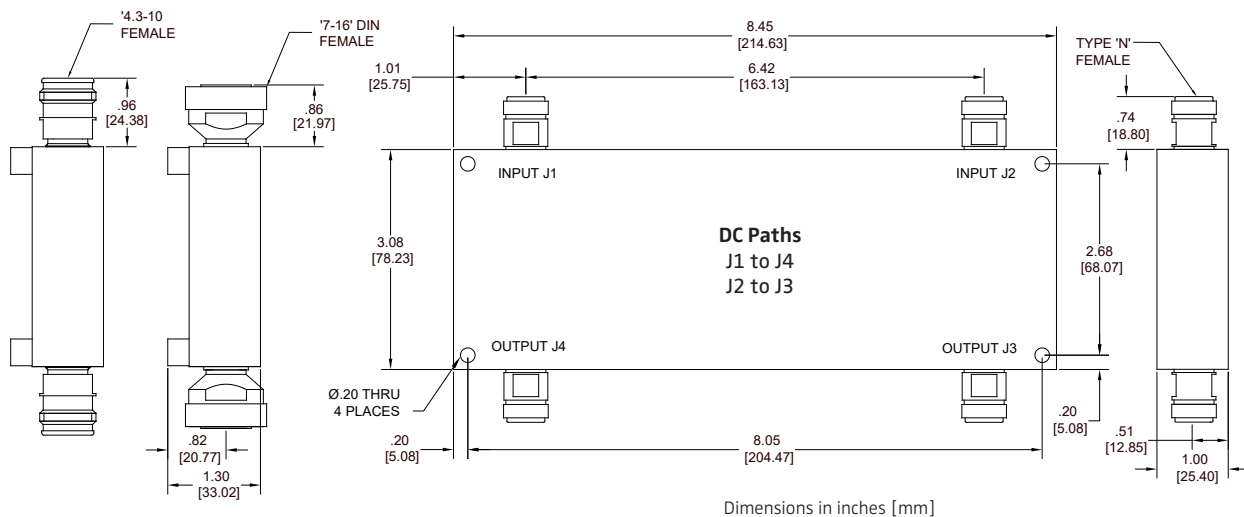
Microlab Hybrid Couplers have been designed LAA deployments. They are most commonly used to combine two wireless carriers in the operating band to a single antenna feed or distribution cable. This requires the termination of one output port in 50Ω and results in a 3 dB loss in each signal. In situations 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 | 350 - 1,500 | >25 dB | 3.2 ± 0.5 | 1.20:1 |
| N | 1,500 - 2,500 | >20 dB | 3.4 ± 0.5 | 1.30:1 |
| 4.3-10 | 2,500 - 2,700 | >18 dB | 3.5 ± 0.7 | 1.50:1 |
| CA-14D | 2,700 - 4,900 | >18 dB | 3.6 ± 0.8 | 1.50:1 |
| CA-14N | 4,900 - 5,925 | >18 dB | 3.6 ± 1.0 | 1.50:1 |
| CA-14E | | | | |

| | |
|------------------|---|
| 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.

09JUL2019