

TD-PCS-1-A3-A4A5 | E15Z50P73



Twin Inband Diplexer PCS A3-A4A5, DC sense

- Twin configuration
- Automatic dc switching with dc sense
- Minimal Insertion Loss
- Self-contained housing ensures highest reliability in severe environments

Product Classification

Product Type Diplexer

General Specifications

Color Gray

Connector Interface 7-16 DIN Female

Dimensions

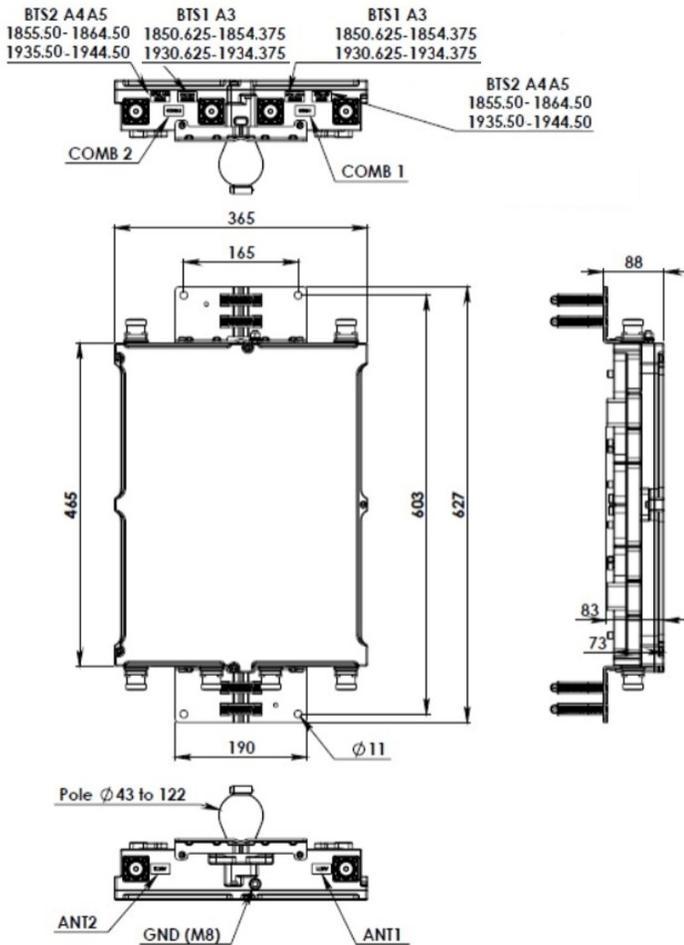
Height 465 mm | 18.307 in

Width 365 mm | 14.37 in

Depth 73 mm | 2.874 in

Outline Drawing

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Electrical Specifications

| | |
|---|---------------|
| 5th Order IMD, maximum | -153 dBc |
| Lightning Surge Current | 10 kA |
| Lightning Surge Current Waveform | 8/20 waveform |

Electrical Specifications, Rx (Uplink)

| | |
|-----------------------------------|-------------------------|
| Frequency Band | 1850.625 – 1854.375 MHz |
| Insertion Loss, typical | 0.8 dB |
| Return Loss, typical | 18 dB |
| Isolation, minimum | 28 dB |
| Total Group Delay, maximum | 250 ns |

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Electrical Specifications 2, Rx (Uplink)

| | |
|-----------------------------------|-----------------------|
| Frequency Band | 1855.50 – 1864.50 MHz |
| Isolation, minimum | 28 dB |
| Total Group Delay, maximum | 250 ns |
| Insertion Loss, typical | 0.8 dB |
| Return Loss, minimum | 18 dB |

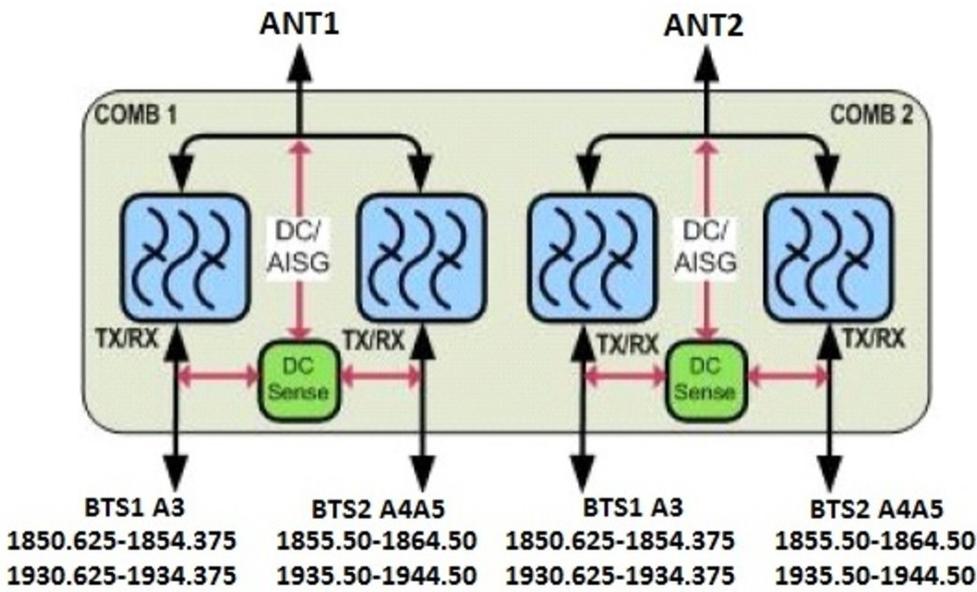
Electrical Specifications, Tx (Downlink)

| | |
|-----------------------------------|-------------------------|
| Frequency Band | 1930.625 – 1934.375 MHz |
| Input Power, PEP, maximum | 100 W |
| Input Power, RMS, maximum | 3000 W |
| Total Group Delay, maximum | 210 ns |
| Insertion Loss, typical | 0.8 dB |
| Return Loss, typical | 18 dB |

Electrical Specifications 2, Tx (Downlink)

| | |
|-----------------------------------|-----------------------|
| Frequency Band | 1935.50 – 1944.50 MHz |
| Insertion Loss, typical | 0.8 dB |
| Return Loss, minimum | 18 dB |
| Return Loss, typical | 18 dB |
| Total Group Delay, maximum | 250 ns |

Block Diagram



Environmental Specifications

Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F)

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Weight, net 15.5 kg | 34.172 lb