

E14F06P51



Quad Diplexer 617-698/703-960 MHz, 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE 4x4 MIMO

Product Classification

Product Type Diplexer

General Specifications

Color Gray

Modularity 4-Quad

Mounting Pipe Hardware Band clamps

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

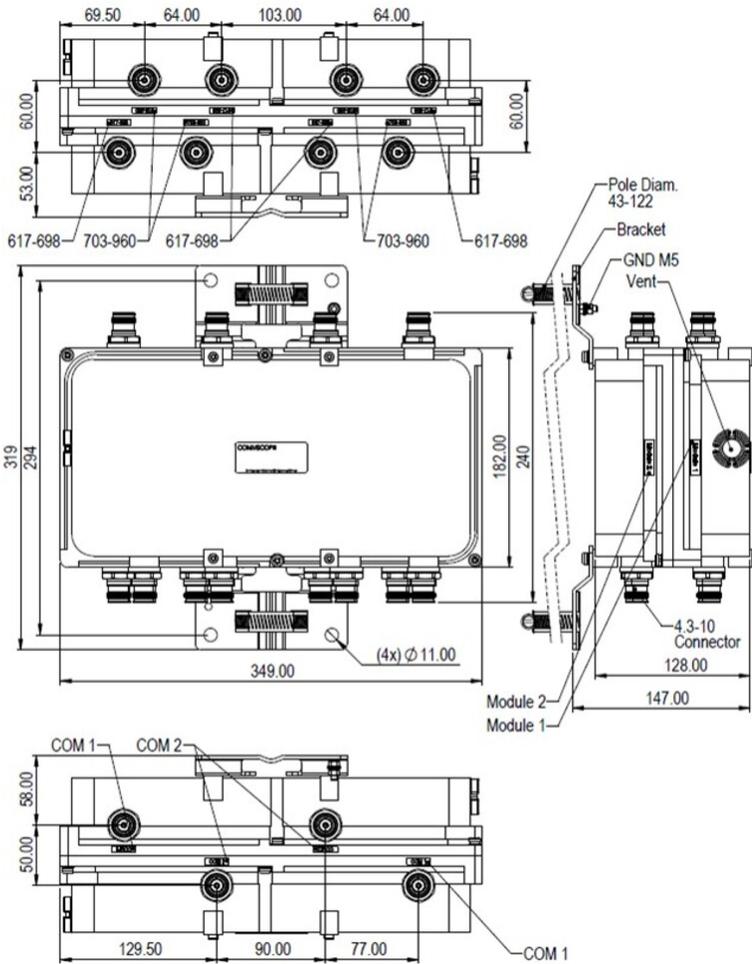
Height 182 mm | 7.165 in

Width 349 mm | 13.74 in

Depth 128 mm | 5.039 in

Outline Drawing

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Electrical Specifications

| | |
|--------------------------------|---|
| Impedance | 50 ohm |
| License Band, Band Pass | APT 700 CEL 850 CEL 900 EDD 800 LMR 750 LMR 800 LMR 900 USA 600 USA 700 USA 750 |

Electrical Specifications, dc Power/Alarm

| | |
|--|---------------------|
| dc/AISG Pass-through, combiner | Branch 1 Branch 2 |
| dc/AISG Pass-through, demultiplexer | Branch 1 Branch 2 |
| Lightning Surge Current | 5 kA |
| Lightning Surge Current Waveform | 8/20 waveform |

Electrical Specifications

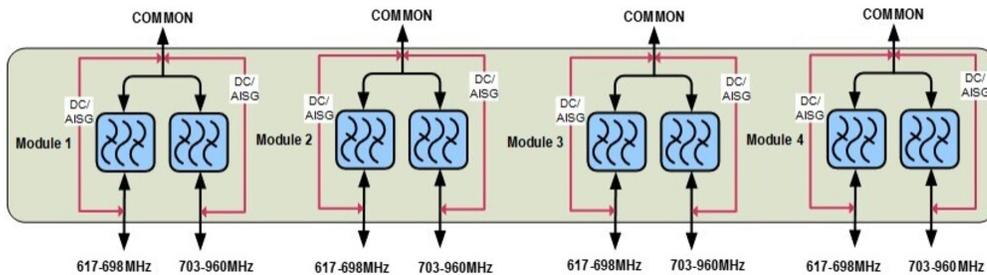
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| | | |
|-------------------------|--------------------|--|
| Sub-module | 1 2 | 1 2 |
| Branch | 1 | 2 |
| Port Designation | Port 617-698 | Port 703-960 |
| License Band | USA 600, Band Pass | APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass LMR 900, Band Pass USA 700, Band Pass USA 750, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass |

Electrical Specifications, Band Pass

| Frequency Range, MHz | 617-698 | 703-960 |
|-------------------------------------|-------------------|-------------------|
| Insertion Loss, typical, dB | 0.3 | 0.2 |
| Return Loss, typical, dB | 20 | 20 |
| Isolation, typical, dB | 43 | 43 |
| Input Power, RMS, maximum, W | 250 | 250 |
| Input Power, PEP, maximum, W | 1200 | 1200 |
| 3rd Order PIM, typical, dBc | -155 | -155 |
| 3rd Order PIM Test Method | 2 x 20 W CW tones | 2 x 20 W CW tones |

Block Diagram



Environmental Specifications

| | |
|---------------------------------------|--------------------------------------|
| Operating Temperature | -40 °C to +65 °C (-40 °F to +149 °F) |
| Corrosion Test Method | IEC 60068-2-11, 30 days |
| Environmental Test Method | ETSI EN 300 019-1-4 |
| Ingress Protection Test Method | IEC 60529:2001, IP67 |

Packaging and Weights

| | |
|---------------|-------|
| Volume | 8.1 L |
|---------------|-------|

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| | |
|--|--------------------|
| Weight, net | 9.1 kg 20.062 lb |
| Weight, without mounting hardware | 8.5 kg 18.739 lb |