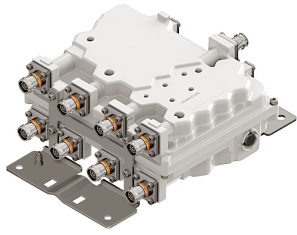


E16V90P54



Twin Quadplexer 1800//2100//2300//2600 MHz, No DC bypass, with 4.3-10 connectors

- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE2300 and LTE2600 on existing site
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Suitable for feeders cables reduction
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG blocking on all ports

This product will be discontinued on: December 30, 2024

Replaced By:

E16V90P56

Twin Quadplexer 1800//2100//2300//2600 MHz, All ports DC bypass, with 4.3-10 connectors

Product Classification

Product Type Quadplexer

General Specifications

Color Gray

Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe Hardware Band clamps (2)

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Medium neck

Dimensions

Height 248 mm | 9.764 in

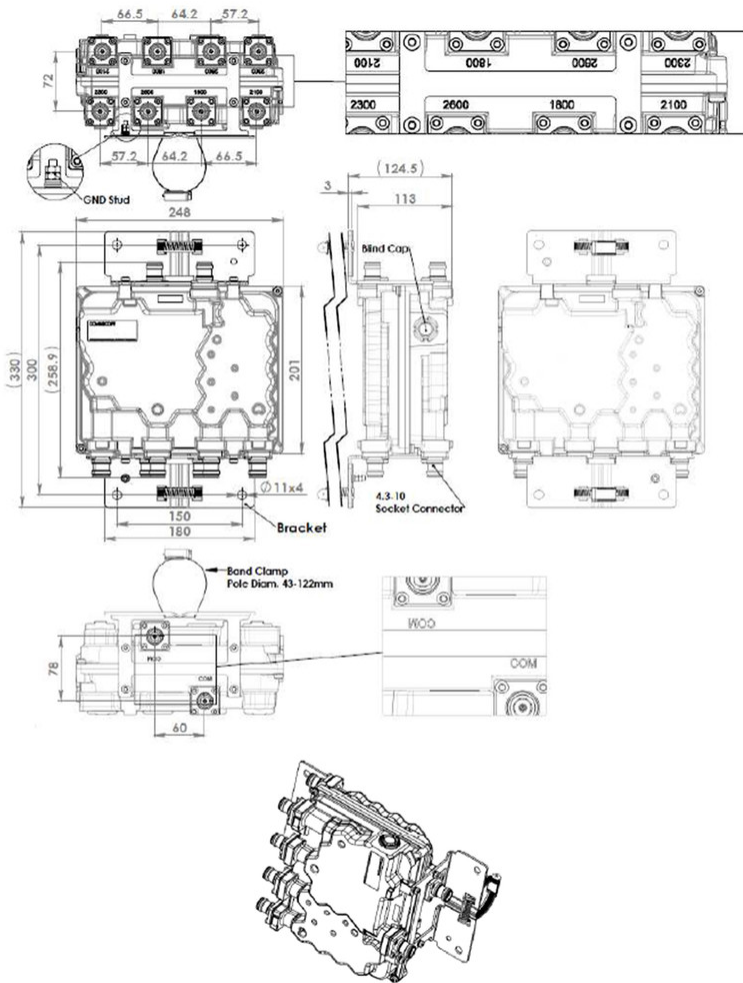
Width 205 mm | 8.071 in

Depth 113 mm | 4.449 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing

E16V90P54



Electrical Specifications

| | |
|--------------------------------|---|
| Impedance | 50 ohm |
| License Band, Band Pass | APT 700 CEL 850 CEL 900 DCS 1800 EDD 800 IMT 2100 IMT 2600 LMR 800 LMR 900 TDD 2300 |

Electrical Specifications, dc Power/Alarm

| | |
|--|-------------------------------|
| dc/AISG Pass-through, combiner | dc/AISG blocking on all ports |
| dc/AISG Pass-through, demultiplexer | dc/AISG blocking on all ports |
| Lightning Surge Current | 5 kA |
| Lightning Surge Current Waveform | 8/20 waveform |

Electrical Specifications, AISG

| | |
|---------------------|--------------------|
| AISG Carrier | 2176 KHz ± 100 ppm |
|---------------------|--------------------|

E16V90P54

| | |
|--------------------------------|-------|
| Insertion Loss, maximum | 1 dB |
| Return Loss, minimum | 10 dB |

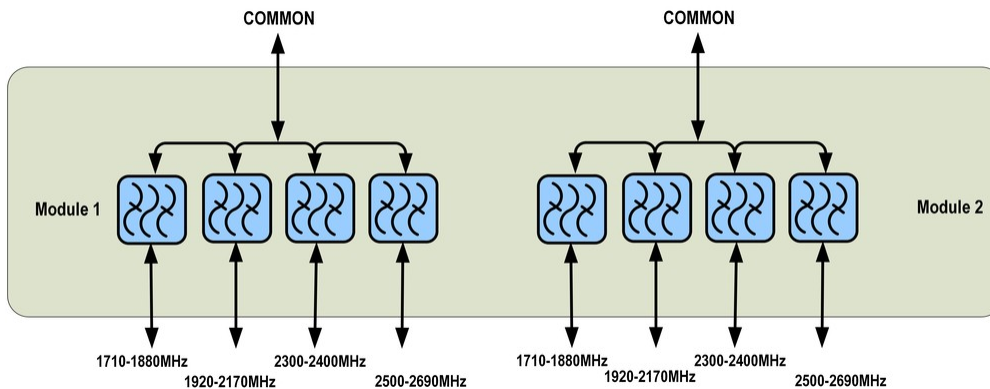
Electrical Specifications

| | | | | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|
| Sub-module | 1 2 | 1 2 | 1 2 | 1 2 |
| Branch | 1 | 2 | 3 | 4 |
| Port Designation | PORT 1 1710-1880MHz | PORT 2 1920-2170MHz | PORT 3 2300-2400MHz | PORT 4 2500-2690MHz |
| License Band | DCS 1800, Band Pass | IMT 2100, Band Pass | TDD 2300, Band Pass | IMT 2600, Band Pass |

Electrical Specifications, Band Pass

| | | | | |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Frequency Range, MHz | 1710–1880 | 1920–2170 | 2300–2400 | 2500–2690 |
| Insertion Loss, typical, dB | 0.4 | 0.4 | 0.35 | 0.3 |
| Return Loss, typical, dB | 22 | 22 | 22 | 22 |
| Isolation, minimum, dB | 50 | 50 | 50 | 50 |
| Input Power, RMS, maximum, W | 300 | 300 | 300 | 300 |
| Input Power, PEP, maximum, W | 3000 | 3000 | 3000 | 3000 |
| 3rd Order PIM, typical, dBc | -160 | -160 | -160 | -160 |
| 3rd Order PIM Test Method | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers |

Block Diagram



Mechanical Specifications

| | |
|----------------------------|--------------------|
| Wind Speed, maximum | 216 km/h (134 mph) |
|----------------------------|--------------------|

Environmental Specifications

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

E16V90P54

| | |
|---------------------------------------|-------------------------|
| Relative Humidity | 15%–100% |
| Corrosion Test Method | IEC 60068-2-11, 30 days |
| Ingress Protection Test Method | IEC 60529:2001, IP67 |
| Vibration Test Method | IEC 60068-2-6 |

Packaging and Weights

| | |
|--------------------|--------------------|
| Included | Mounting hardware |
| Weight, net | 7.6 kg 16.755 lb |