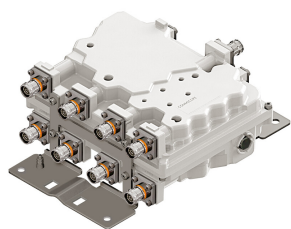


# E16V90P57



Twin Quadplexer 1800//2100//2300//2600 MHz, SMART 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 SMART bypass functionality

## Product Classification

**Product Type** Quadplexer

## General Specifications

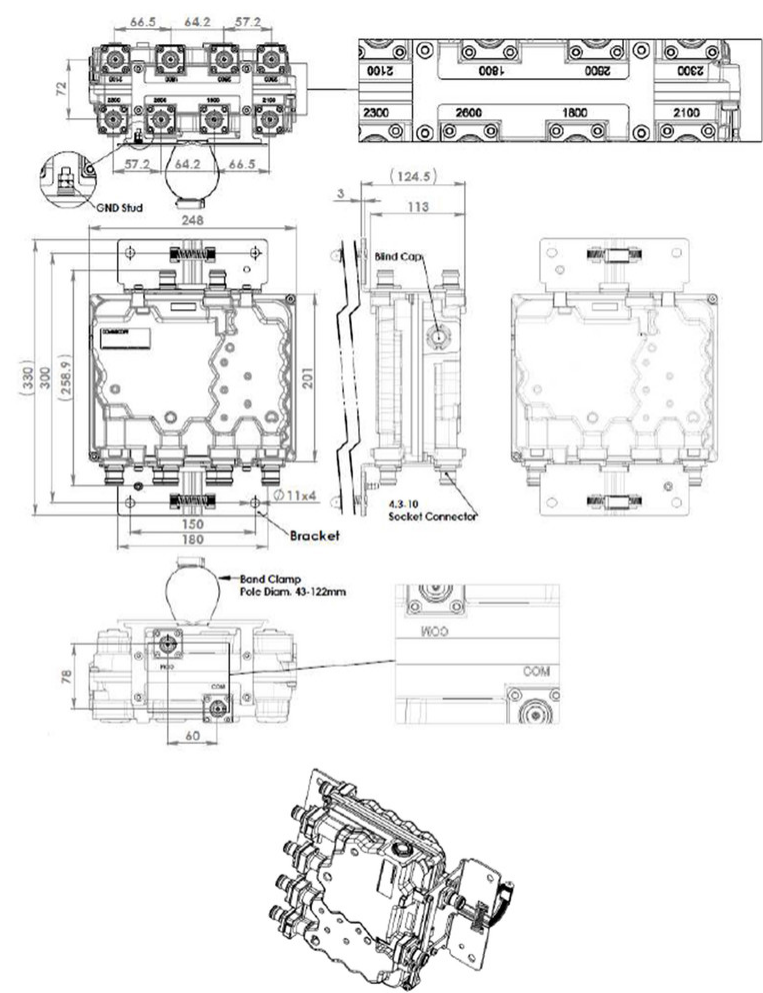
<b>Color</b>	Gray
<b>Modularity</b>	2-Twin
<b>Mounting</b>	Pole   Wall
<b>Mounting Pipe Hardware</b>	Band clamps (2)
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Interface Body Style</b>	Medium neck

## Dimensions

<b>Height</b>	248 mm   9.764 in
<b>Width</b>	205 mm   8.071 in
<b>Depth</b>	113 mm   4.449 in
<b>Mounting Pipe Diameter Range</b>	42.6–122 mm

## Outline Drawing

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	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

<b>dc/AISG Pass-through Method</b>	Auto sensing
<b>dc/AISG Pass-through Path</b>	Auto sensing circuitry detects dc/AISG signal presence and selects path
<b>dc/AISG Pass-through, combiner</b>	dc Smart Bypass
<b>dc/AISG Pass-through, demultiplexer</b>	dc Smart Bypass
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

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## Electrical Specifications, AISG

<b>AISG Carrier</b>	2176 KHz ± 100 ppm
<b>Insertion Loss, maximum</b>	1 dB
<b>Return Loss, minimum</b>	10 dB

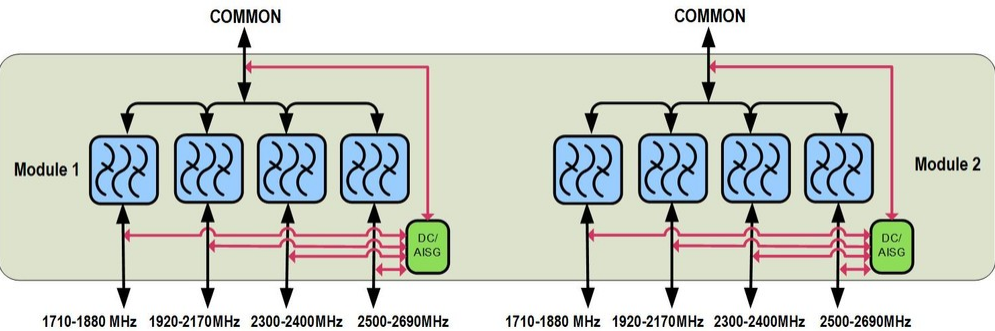
## Electrical Specifications

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

## Electrical Specifications, Band Pass

<b>Frequency Range, MHz</b>	<b>1710–1880</b>	<b>1920–2170</b>	<b>2300–2400</b>	<b>2500–2690</b>
<b>Insertion Loss, typical, dB</b>	0.4	0.4	0.35	0.3
<b>Return Loss, typical, dB</b>	20	20	20	20
<b>Isolation, minimum, dB</b>	50	50	50	50
<b>Input Power, RMS, maximum, W</b>	300	300	300	300
<b>Input Power, PEP, maximum, W</b>	3000	3000	3000	3000
<b>3rd Order PIM, typical, dBc</b>	-160	-160	-160	-160
<b>3rd Order PIM Test Method</b>	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram



## Mechanical Specifications

<b>Wind Speed, maximum</b>	216 km/h (134 mph)
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## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
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
Volume	5.8 L
Weight, net	7.6 kg   16.755 lb