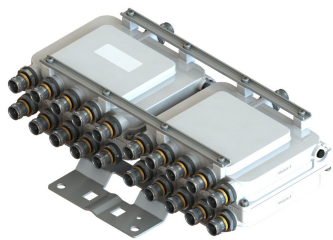


# E14F20P19



Quad Pentaplexer 617-960/1350-2200/2300-2400/2496-2700/3300-4200, DC/AISG bypass on all frequency ports, with 4.3-10 connectors

- New Combining Solution to introduce 5G, 3.5GHz band
- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Suitable for feeders cables reduction
- dc/AISG pass-through on all frequency ports
- Quad configuration, 4x4 MIMO ready

## Product Classification

**Product Type** Pentaplexer

## General Specifications

**Color** Gray

**Modularity** 4-Quad

**Mounting** Pole | Wall

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 88 mm | 3.465 in

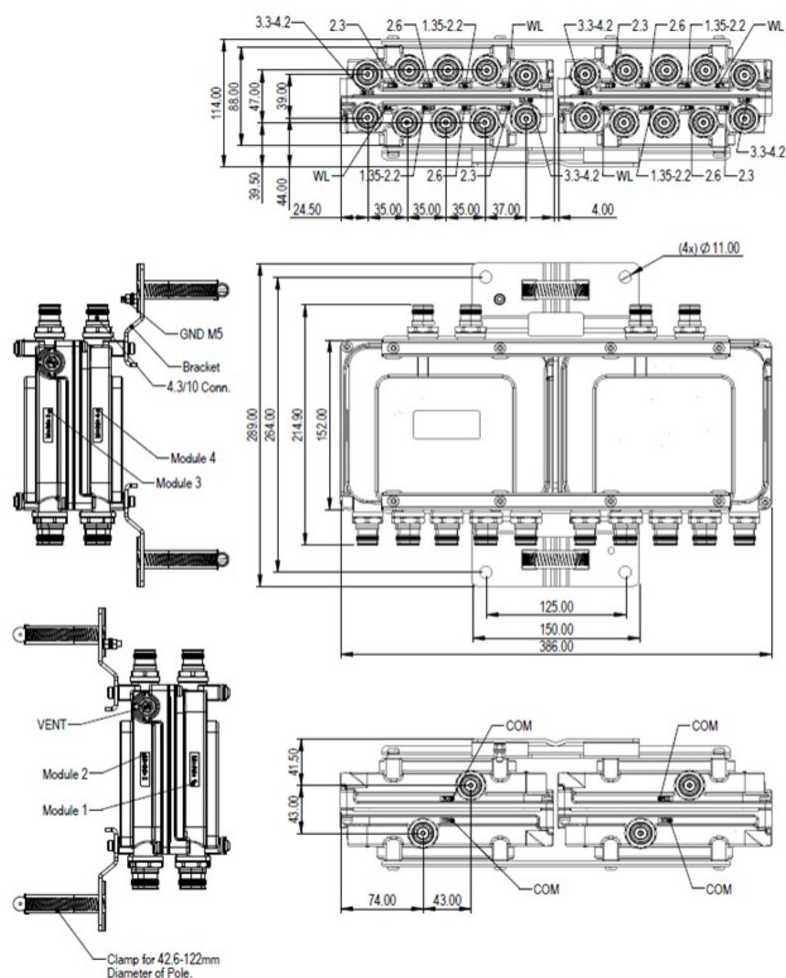
**Width** 386 mm | 15.197 in

**Depth** 152 mm | 5.984 in

**Mounting Pipe Diameter Range** 43–122 mm

## Outline Drawing

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	APT 700   AWS 1700   CEL 850   CEL 900   DCS 1800   EDD 800   IMT 2100   IMT 2600   SDL 1400   TDD 2300   TDD 2600   TDD 3500   USA 600

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Path</b>	Branch 1   Branch 2   Branch 3   Branch 4   Branch 5
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

## Electrical Specifications

<b>Sub-module</b>	1   2	1   2	1   2	1   2	1   2
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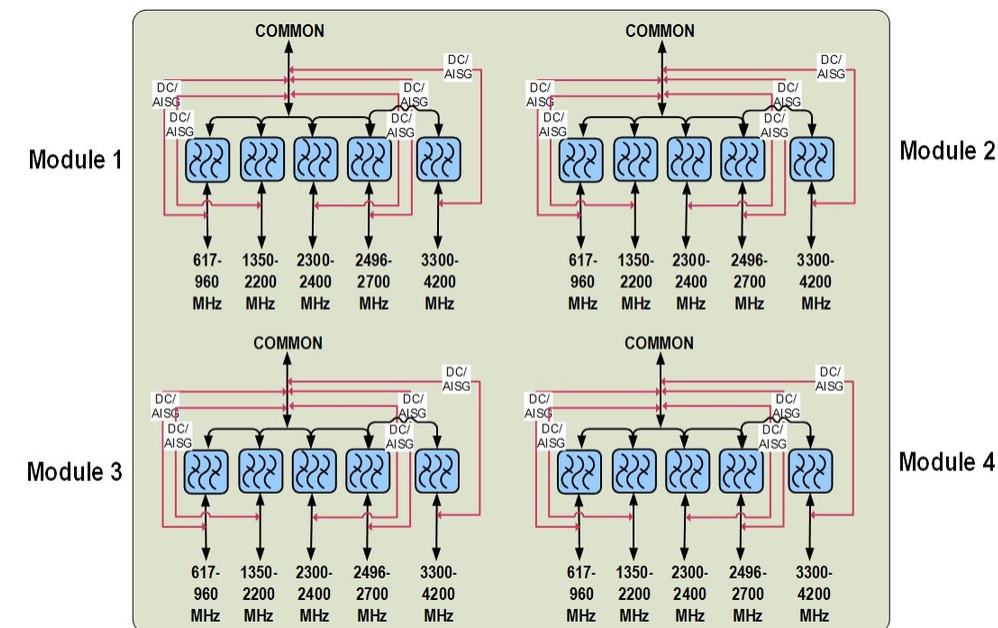
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Branch	1	2	3	4	5
Port Designation	PORT 1 617-960	PORT 2 1350-2200	PORT 3 2300-2400	PORT 4 2496-2700	PORT 5 3300-4200
License Band	APT 700, Band Pass USA 600, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass	PCS 1900, Band Pass AWS 1700, Band Pass SDL 1400, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass	TDD 2300, Band Pass	TDD 2600, Band Pass IMT 2600, Band Pass	TDD 3500, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	617–960	1350–2200	2300–2400	2496–2700	3300–4200
Insertion Loss, typical, dB	0.15	0.1	0.2	0.15	0.15
Return Loss, typical, dB	20	20	20	20	20
Isolation, typical, dB	38	38	38	38	38
Input Power, RMS, maximum, W	125	125	125	125	125
Input Power, PEP, maximum, W	1250	1250	1250	1250	1250
3rd Order PIM, typical, dBc	-155	-155	-155	-155	-155
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram



## Mechanical Specifications

Wind Speed, maximum	200 km/h (124 mph)
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## Environmental Specifications

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

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	5.2 L
<b>Weight, net</b>	8.55 kg   18.85 lb
<b>Weight, without mounting hardware</b>	7.6 kg   16.755 lb