

E14F20P14



Ultra Compact Single Pentaplexer 700-900/1400-1800/2100/2300-2600/3300-3800, dc bypass on low band, 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
- Single configuration

Product Classification

Product Type Pentaplexer

General Specifications

Color Gray

Modularity 1-Single

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 58.5 mm | 2.303 in

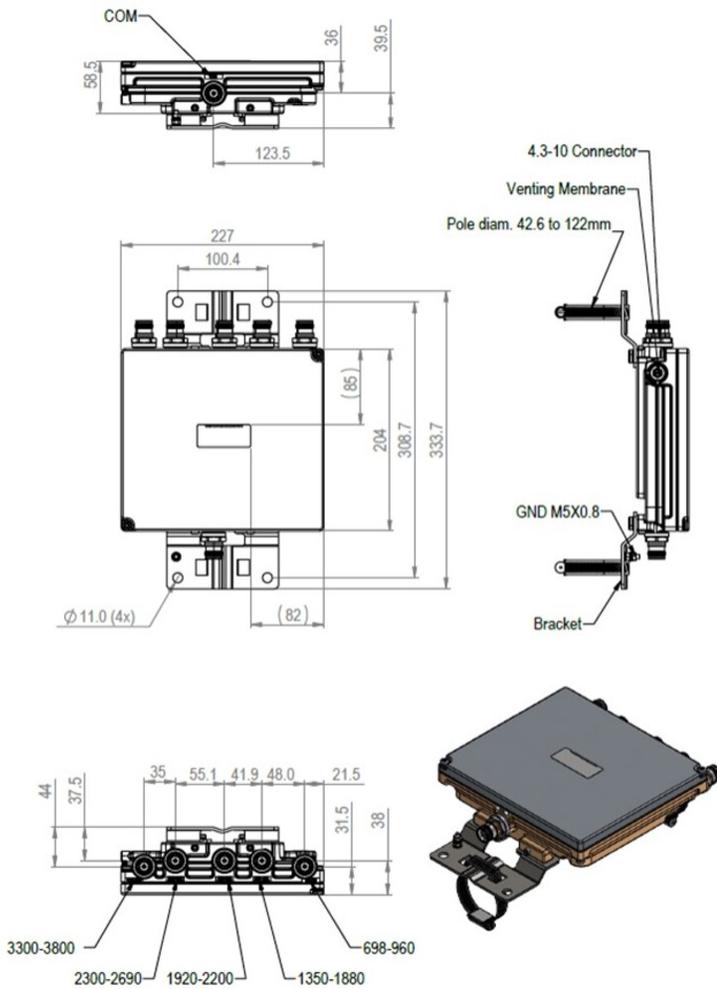
Width 227 mm | 8.937 in

Depth 204 mm | 8.032 in

Mounting Pipe Diameter Range 43-122 mm

Outline Drawing

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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 SDL 1400 TDD 2300 TDD 2600 TDD 3500 USA 700 WCS 2300

Electrical Specifications, dc Power/Alarm

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

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Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm
AISG Pass-through Current, maximum	2.5 A
Insertion Loss, maximum	0.5 dB

Electrical Specifications

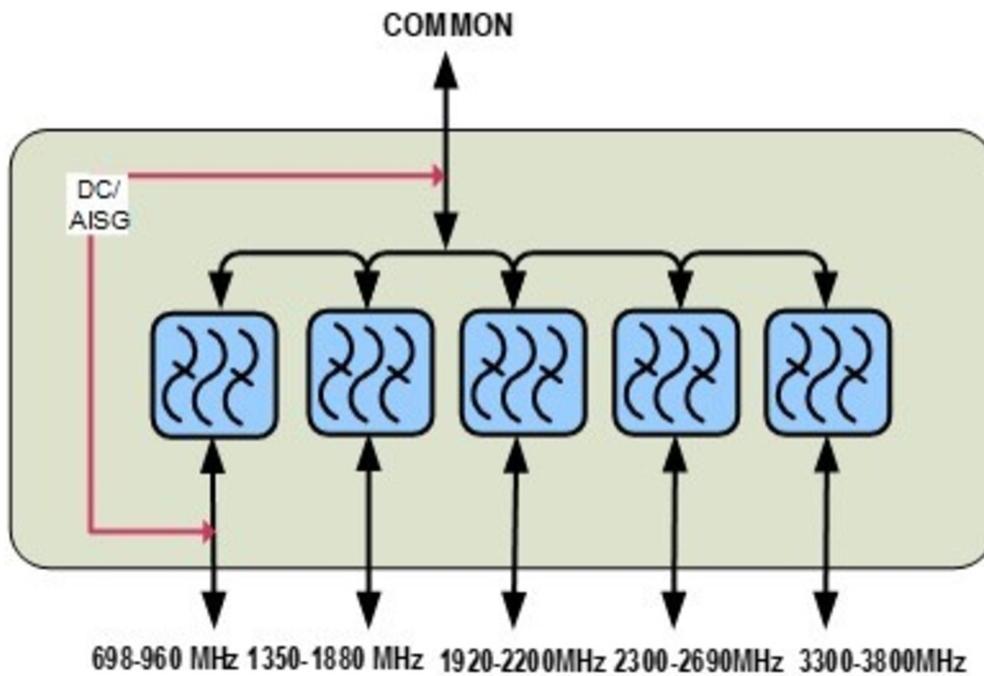
Sub-module	1 2	1 2	1 2	1 2	1 2
Branch	1	2	3	4	5
Port Designation	PORT 1 698-960	PORT 2 1350-1880	PORT 3 1920-2200	PORT 4 2300-2690	PORT 5 3300-3800
License Band	APT 700, Band Pass LMR 800, Band Pass LMR 900, Band Pass USA 700, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass	SDL 1400, Band Pass DCS 1800, Band Pass	IMT 2100, Band Pass	WCS 2300, 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	698–960	1350–1525 1710–1880	1920–2200	2300–2690	3300–3800
Insertion Loss, typical, dB	0.3	0.3	0.3	0.25	0.2
Return Loss, typical, dB	20	20	20	20	16
Isolation, typical, dB	52	52	52	52	52
Input Power, RMS, maximum, W	100	100	100	100	100
Input Power, PEP, maximum, W	1000	1000	1000	1000	1000
3rd Order PIM, typical, dBc	-163	-163	-163	-163	-163
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

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Mechanical Specifications

Wind Speed, maximum 240 km/h (149 mph)

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

Vibration Test Method IEC 60068-2-6

Packaging and Weights

Included Mounting hardware

Volume 2.7 L

Weight, net 3.7 kg | 8.157 lb

Weight, without mounting hardware 3.2 kg | 7.055 lb