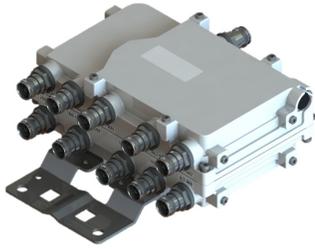


SPX619212342T-43 | E14F20P21



Compact Twin Pentaplexer 617-960/AWS/PCS/WCS/ 3.3-4.2G, dc bypass on low 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 low frequency ports
- Clam shell configuration

Product Classification

Product Type Pentaplexer

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 Long neck

Dimensions

Height 147 mm | 5.787 in

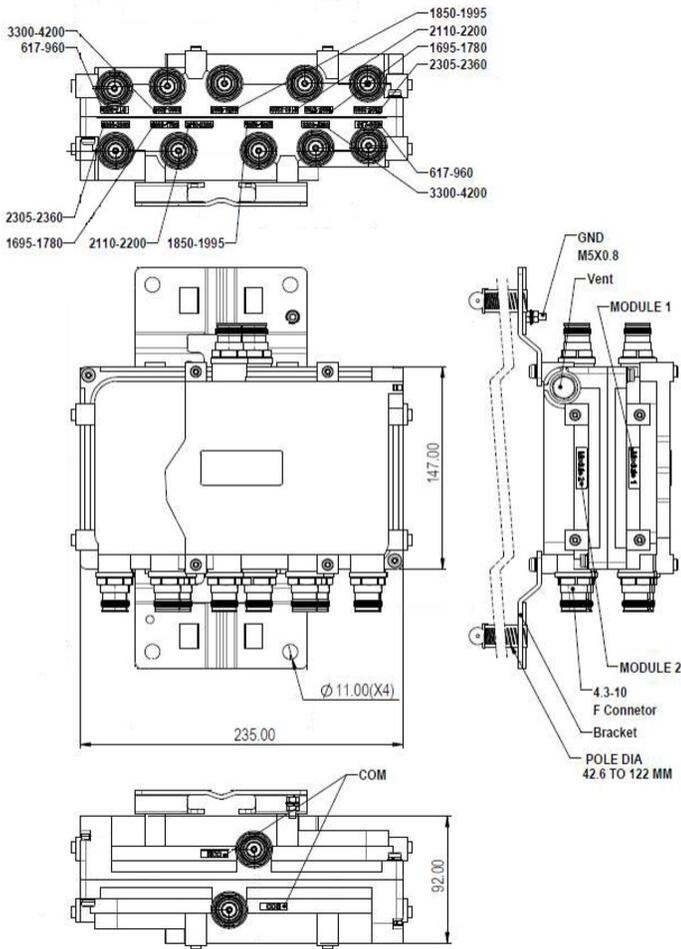
Width 235 mm | 9.252 in

Depth 92 mm | 3.622 in

Mounting Pipe Diameter Range 43–122 mm

Outline Drawing

SPX619212342T-43 | E14F20P21



Electrical Specifications

dc Pass-through	Band 1
Impedance	50 ohm
License Band, Band Pass	APT 700 AWS 1700 AWS 2000 CEL 850 CEL 900 IMT 2100 LMR 800 PCS 1900 TDD 3500 USA 600 USA 700 WCS 2300

Electrical Specifications, Common Port

Composite Power, RMS	500 W
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Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1
dc/AISG Pass-through, combiner	Branch 1

SPX619212342T-43 | E14F20P21

dc/AISG Pass-through, demultiplexer	Branch 1
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform
Pass-through Current, maximum	2 A
Voltage	7–30 Vdc

Electrical Specifications, AISG

AISG Carrier	2.176 MHz ± 100 ppm
AISG Pass-through Current, maximum	2 A

Electrical Specifications

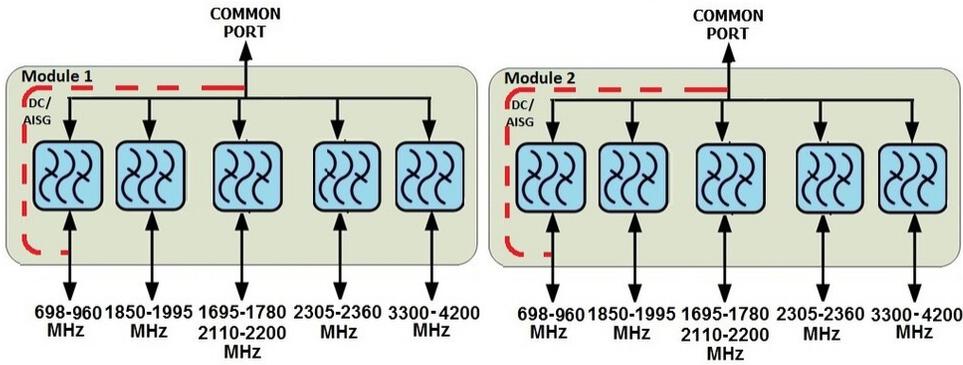
Sub-module	1 2	1 2	1 2	1 2	1 2
Branch	1	2	3	4	5
Port Designation	PORT 1 617-960	PORT 2 1850-1995	PORT 3 AWS	PORT 4 2305-2360	PORT 5 3300-4200

Electrical Specifications, Band Pass

Frequency Range, MHz	617–960	1850–1995	1695–1780 2110–2200	2305–2360	3300–4200
Insertion Loss, typical, dB	0.15	0.2	0.2	0.25	0.15
Return Loss, typical, dB	21	20	20	20	20
Isolation, minimum, dB	50 @ 1850–1995 50 @ 2305–2360 50 @ 3300–4200 45 @ 1695–1780 2110–2200	50 @ 617–960 40 @ 1695–1780 50 @ 2110–2200 50 @ 2305–2360 50 @ 3300–4200	50 @ 617–960 40 @ 1850–1995 40 @ 2305–2360 50 @ 3300–4200	50 @ 617–960 45 @ 2110–2200 50 @ 1695–1780 50 @ 1850–1995 50 @ 3300–4200	50 @ 617–960 50 @ 1850–1995 50 @ 2305–2360 50 @ 1695–1780 2110–2200
Input Power, RMS, maximum, W	200	200	200	200	200
Input Power, PEP, maximum, W	1200	1200	1200	1200	800
3rd Order PIM, typical, dBc	-161	-161	-161	-161	-161
3rd Order PIM Test Method	Two +43 dBm CW Tones	Two +43 dBm CW Tones	Two +43 dBm CW Tones	Two +43 dBm CW Tones	Two +43 dBm CW Tones

Block Diagram

SPX619212342T-43 | E14F20P21



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

Packaging and Weights

Included Mounting hardware

Volume 3.2 L

Weight, without mounting hardware 4.2 kg | 9.259 lb