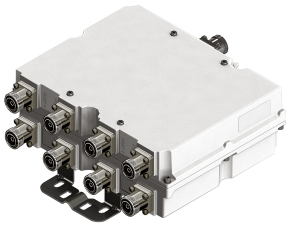# E11F23P15

Twin Quadplexer 850//900//1800//2100 MHz, dc bypass on all ports

- Twin configuration
- Suitable for feeders cables reduction
- dc/AISG pass-through on all frequency ports

OBSOLETE

This product was discontinued on: June 30, 2022

Product Classification

Product Type	Quadplexer

General Specifications

Color	Gray
Modularity	2-Twin
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Medium neck

Dimensions

Height	104 mm | 4.094 in
Width	297 mm | 11.693 in
Depth	226 mm | 8.898 in
Mounting Pipe Diameter Range	42.6–122 mm

Outline Drawing

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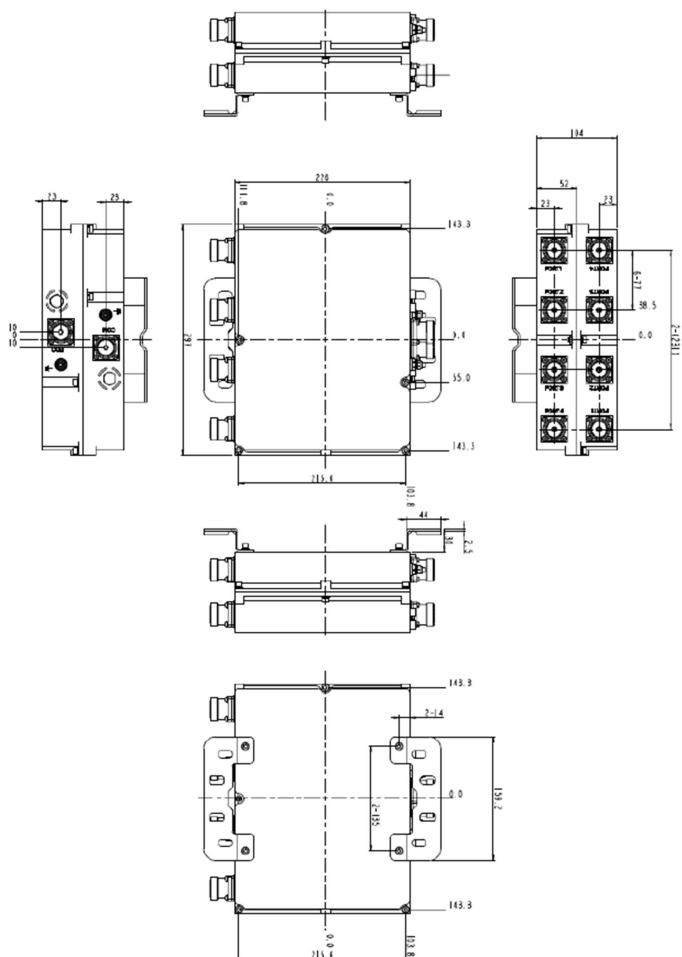
Electrical Specifications

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	TDD 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1	Branch 2	Branch 3	Branch 4
dc/AISG Pass-through, combiner	Branch 1	Branch 2	Branch 3	Branch 4
dc/AISG Pass-through, demultiplexer	Branch 1	Branch 2	Branch 3	Branch 4
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
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 1 825-880	PORT 2 906.8-960	PORT 3 1710-1880	PORT 4 1920-2170
License Band	CEL 850, Band Pass	CEL 900, Band Pass LMR 900, Band Pass		IMT 2100, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	825–880	906.8–960	1710–1880	1920–2170
Insertion Loss, maximum, dB	0.45	0.45	0.3	0.3
Return Loss, minimum, dB	18	18	18	18
Isolation, minimum, dB	50	50	50	50
Input Power, RMS, maximum, W	250	250	250	250
Input Power, PEP, maximum, W	2500	2500	2500	2500
3rd Order PIM, typical, dBc	-150	-150	-150	-150
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram
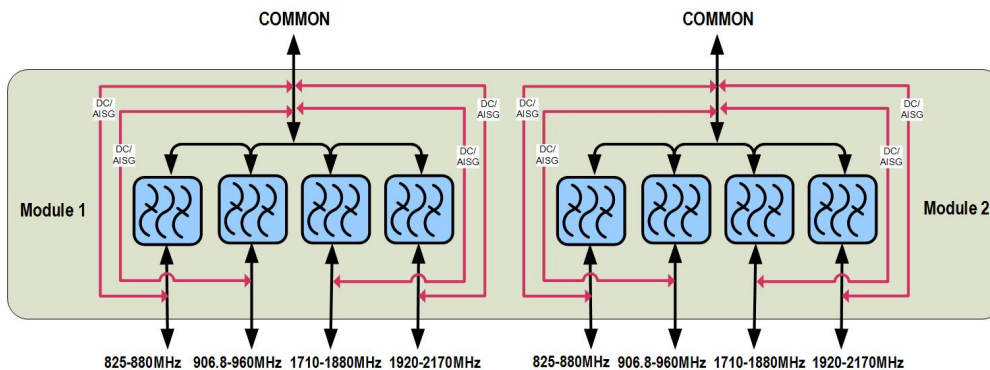
Mechanical Specifications

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

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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
Weight, net	9.4 kg | 20.723 lb

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