CDX7FNQ-DL-43 | E14F06P28

Quad Diplexer B12-B5/B14, DC on B12-B5, 4.3-10 connectors

- Combines FirstNet public safety bands with 700/850 dual band diplexed radios
- Port 1 supports B5/B12/B17/B29 and port 2 supports B14
- Convertible mounting brackets
- DC/AISG pass through B12-B5 bands port
- Quad configuration, 4x4 MIMO ready

Product Classification

Product Type	Diplexer

General Specifications

Color	Gray
Common Port Label	Common
Modularity	4-Quad
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	180 mm | 7.087 in
Width	243 mm | 9.567 in
Depth	159 mm | 6.26 in
Ground Screw Diameter	5 mm | 0.197 in

Outline Drawing

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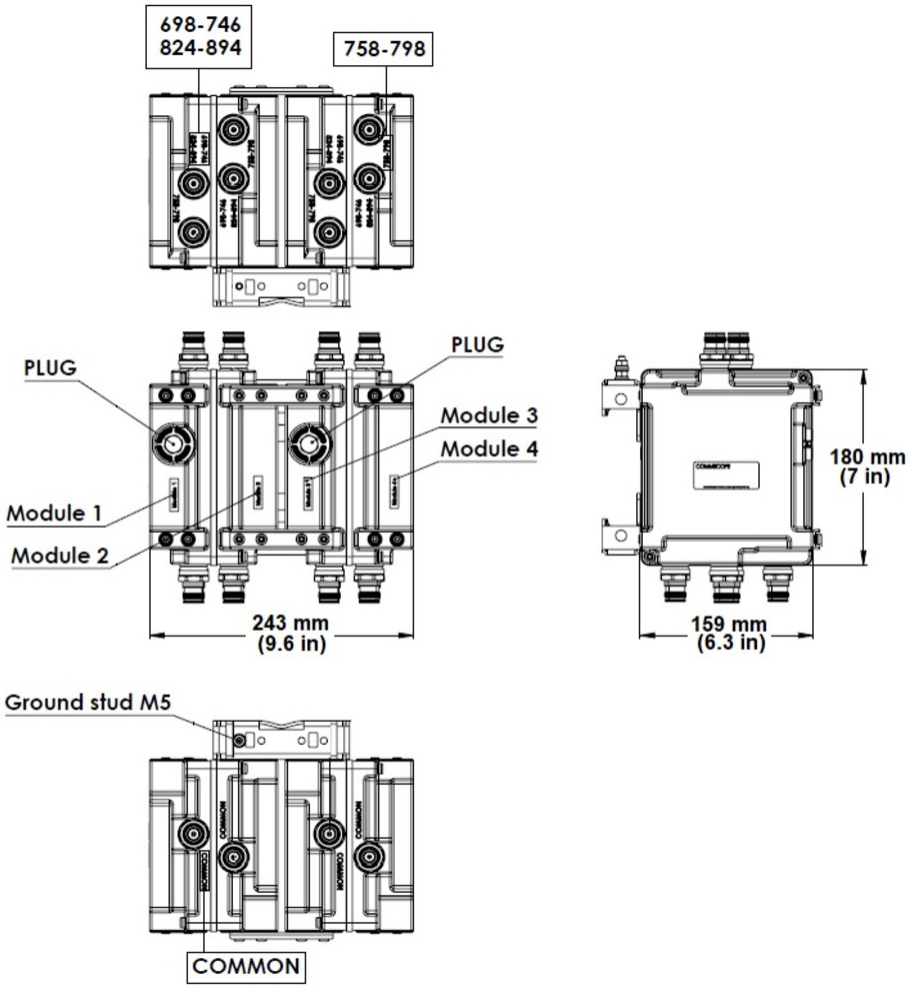


Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	CEL 850 | LMR 750 | USA 700

Electrical Specifications, dc Power/Alarm

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

Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm

Insertion Loss, maximum	0.5 dB
Return Loss, minimum	18 dB

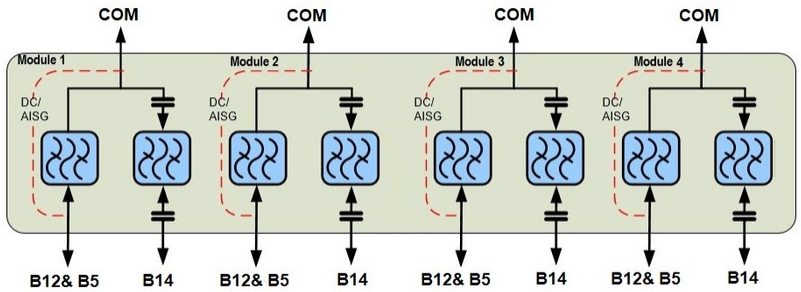
Electrical Specifications

Sub-module	**1 | 2 | 3 | 4**	**1 | 2 | 3 | 4**	**1 | 2 | 3 | 4**
Branch	1	1	2
Port Designation	B12-B5	B12-B5	B14
License Band	USA 700, Band Pass	CEL 850, Band Pass	LMR 750, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	**698–746**	**824–894**	**758–798**
Insertion Loss, maximum, dB	0.4	0.4	0.55
Total Group Delay, maximum, ns	45	15	50
Return Loss, typical, dB	20	20	20
Isolation, minimum, dB	35	35	35
Input Power, RMS, maximum, W	160	160	160
Input Power, PEP, maximum, W	1600	1600	1600
3rd Order PIM, maximum, dBc	-155	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



Mechanical Specifications

Wind Loading @ Velocity, frontal	64.0 N @ 150 km/h (14.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	32.0 N @ 150 km/h (7.2 lbf @ 150 km/h)

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)

Relative Humidity	5%–100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Mounting Hardware Weight	0.5 kg | 1.102 lb
Volume	6.9 L
Weight, without mounting hardware	8.4 kg | 18.519 lb