

CDX67DQ-DL-43 | E14F07P44



4 Pack Diplexer 617-698/717-798 MHz, DC Pass 600 MHz, 4.3-10

- Quad configuration, 4x4 MIMO ready
- dc/ASG pass-through on low frequency ports

Product Classification

Product Type Diplexer

General Specifications

Color Gray

Common Port Label Common

Modularity 4-Quad

Mounting Pole | Wall

Mounting Pipe Hardware Brackets

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

Height 145 mm | 5.709 in

Width 296 mm | 11.654 in

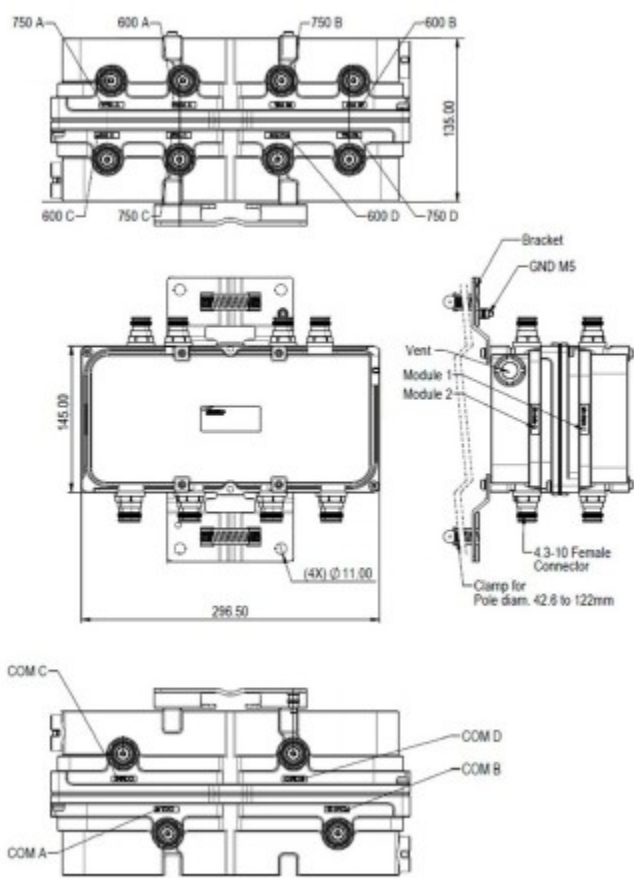
Depth 135 mm | 5.315 in

Ground Screw Diameter 5 mm | 0.197 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing

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Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	USA 600 USA 700 USA 750
Voltage	0–35 Vdc

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
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications, AISG

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AISG Carrier	2176 KHz ± 100 ppm
AISG Pass-through Current, maximum	3.5 A

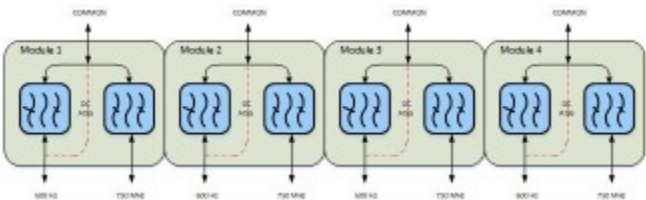
Electrical Specifications

Sub-module	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Branch	1	1	2	2	2
Port Designation	617-698	617-698	717-798	717-798	717-798
License Band	USA 600, Band Pass	USA 600, Band Pass	USA 700, Band Pass USA 750, Band Pass	USA 700, Band Pass USA 750, Band Pass	USA 700, Band Pass USA 750, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	617-652	663-698	717-728	758-768	788-798
Insertion Loss, maximum, dB	0.2	0.35	0.35	0.2	0.2
Insertion Loss, typical, dB	0.1	0.2	0.2	0.15	0.15
Total Group Delay, maximum, ns	50	50	50	50	50
Return Loss, minimum, dB	18	18	18	18	18
Return Loss, typical, dB	20	20	20	20	20
Isolation, minimum, dB	50	50	50	50	50
Input Power, RMS, maximum, W	250		250	250	
Input Power, PEP, maximum, W	2000		2000	2000	
3rd Order PIM, minimum, dBc	-161		-161	-161	
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



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

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Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Mounting Hardware Weight 0.5 kg | 1.102 lb

Volume 5.85 L

Weight, without mounting hardware 6.3 kg | 13.889 lb