

CQX6172340Q-43 | E14F65P06



Quad Quadplexer, 612-960/PCS-AWS/WCS/DoD-CBRS-C-Band, DC Pass on All, 4.3-10

- BTS-to-feeder and feeder-to-antenna application
- DC/AISG passing on all ports
- Supports C-Band, DoD and CBRS bands
- New 4.3-10 connectors for improved PIM performance and size reduction
- Ideal for 4T4R applications

Product Classification

Product Type Quadplexer

General Specifications

Color Gray

Common Port Label Common

Modularity 4-Quad

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

Height 210 mm | 8.268 in

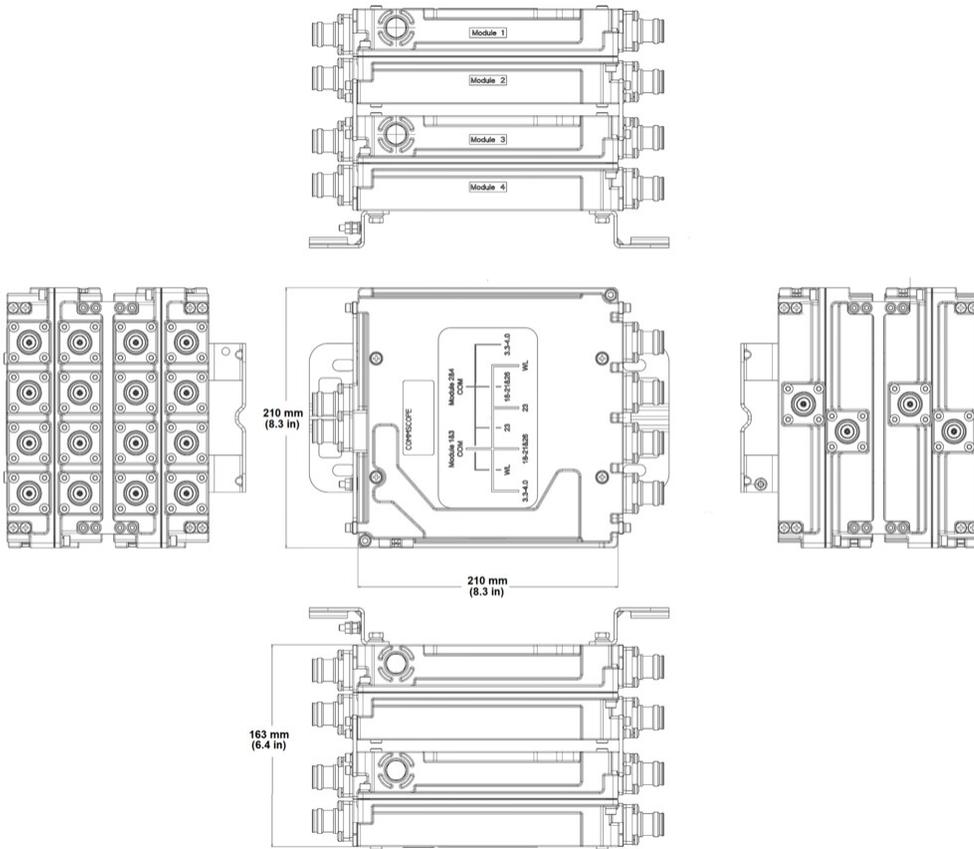
Width 210 mm | 8.268 in

Depth 163 mm | 6.417 in

Ground Screw Diameter 5 mm | 0.197 in

Outline Drawing

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Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 AWS 1700 CEL 850 IMT 2600 LMR 750 LMR 900 PCS 1900 TDD 2600 TDD 3500 USA 600 USA 700 USA 750 WCS 2300
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 Branch 2 Branch 3 Branch 4
Lightning Surge Current	5 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	2.5 A
Insertion Loss, maximum	0.5 dB
Return Loss, minimum	15 dB

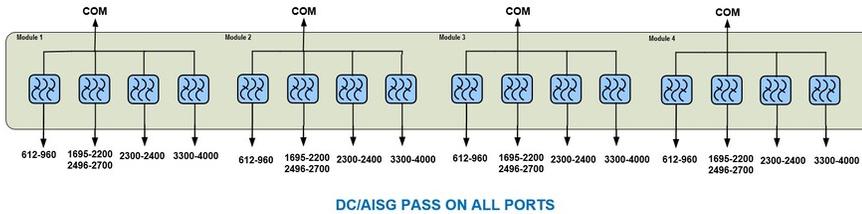
Electrical Specifications

Sub-module	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Branch	1	2	3	4
Port Designation	612-960MHz	AWS-PCS-BRS	WCS	DoD-CBRS-C-Band
License Band	APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass LMR 900, Band Pass USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass	PCS 1900, Band Pass AWS 1700, Band Pass TDD 2600, Band Pass IMT 2600, LNA DCS 1800, Band Pass IMT 2100, Band Pass	WCS 2300, Band Pass	TDD 3500, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	612-960	1695-2200 2496-2700	2300-2400	3300-4000
Insertion Loss, maximum, dB	0.4	0.4	0.4	0.4
Insertion Loss, typical, dB	0.15	0.25	0.3	0.25
Total Group Delay, maximum, ns	5	40	25	10
Return Loss, minimum, dB	18	18	18	18
Isolation, minimum, dB	70	70	70	70
Input Power, RMS, maximum, W	250	250	250	250
Input Power, PEP, maximum, W	1500	1500	1500	1500
3rd Order PIM, maximum, dBc	-155	-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	2 x 20 W CW tones

Block Diagram



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Mechanical Specifications

Wind Loading @ Velocity, frontal	62.0 N @ 150 km/h (13.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	40.0 N @ 150 km/h (9.0 lbf @ 150 km/h)

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	7.3 L
Weight, without mounting hardware	10.1 kg 22.267 lb