CQX6192342T-DS-43 | E14F15P52



Twin Quadplexer 617-960/AWS-WCS/PCS/ CBRS-C-Band, DC Sense,, 4.3-10 connectors

- New Combining Solution to introduce 5G, 3.5GHz band
- BTS-to-feeder and feeder-to-antenna application
- New 4.3-10 connectors for improved PIM performance and size reduction
- Automatic dc switching with dc sense

Product Classification

Product Type	Quadplexer			
General Specifications				
Color	Gray			
Common Port Label	COMM			
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	205 mm 8.071 in			
Depth	101 mm 3.976 in			
Ground Screw Diameter	5 mm 0.197 in			
Mounting Pipe Diameter Range	42.6-122 mm			

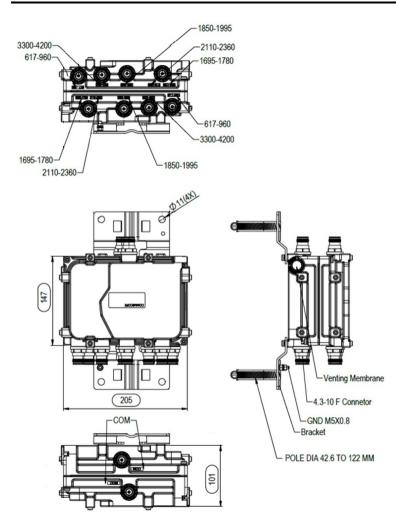
Outline Drawing



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 20, 2025

Page 1 of 4

CQX6192342T-DS-43 | E14F15P52



Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 AWS 1700 CEL 850 CEL 900 DCS 1800 EDD 800 IMT 2100 IMT 2600 LMR 750 LMR 800 LMR 900 PCS 1900 TDD
	3500 USA 600 USA 700 USA 750 WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	See logic table
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform
Pass-through Current, maximum	2 A
Voltage	7-30 Vdc

Page 2 of 4



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 20, 2025

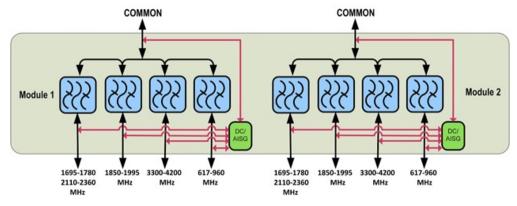
Electrical Specifications

Sub-module	1 2	1 2	1 2	1 2
Branch	1	2	3	4
Port Designation	617-960	PCS	AWS-WCS	CBRS, C-Band
License Band	USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass CEL 850, Band Pass CEL 900, Band Pass	PCS 1900, Band Pass	WCS 2300, Band Pass AWS 1700, Band Pass AWS 2000, Band Pass	TDD 3500, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	617-960	1850-1995	1695–1780 2110–2360	3300-4200
Insertion Loss, maximum, dB	0.3	0.3	0.3	0.3
Total Group Delay, maximum, ns	8	20	20	8
Return Loss, typical, dB	21	20	20	20
Isolation, minimum, dB	50 @ 1850-1995 50 @ 3300-4200 45 @ 1695-1780 2110-2360	50 @ 617-960 40 @ 1695-1780 50 @ 2110-2360 50 @ 3300-4200	50 @ 617-960 40 @ 1850-1995 50 @ 3300-4200	50 @ 617-960 50 @ 1695-2180 50 @ 1850-1995 50 @ 2110-2360
Input Power, RMS, maximum, W	120	120	120	80
Input Power, PEP, maximum, W	1200	1200	1200	800
3rd Order PIM, maximum, dBc	-155	-155	-155	-153
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



Logic Table

Page 3 of 4



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 20, 2025

CQX6192342T-DS-43 | E14F15P52

COMBINER mode priority table

PORT 617-960	PORT 1850-1995	PORT 3.3-4.2	PORT 1695-1780 2110-2360	COMMON
	Selected Port			
any valid DC or <7V	any vålid DC or <7V	any valid DC or <7V	any valid DC	PORT 1695-1780 2110-2360
any valid DC	any valid DC or <7V	any valid DC or <7V	<7V	PORT 617-960
<7V	any valid DC	any valid DC or <7V	<7V	PORT 1850-1995
<7V	<7V	any valid DC	<7V	PORT 3.3-4.2
<7V	<7V	<7V	<7V	NONE

SPLITTER mode: COMMON Port is split to Ports (1-4) with valid impedance	SPLITTER mode: COMMON Port is split to Ports (1-4) with	th valid impedance
---	---	--------------------

MODE	COMMON	PORT 617-960	PORT 1850-1995	PORT 3.3-4.2	PORT 1695-1780 2110-2360	COMMON	PORT 617-960	PORT 1850-1995	PORT 3.3-4.2	PORT 1695-1780 2110-2360
	Input Voltage					Selected Port				
	>7V	short	short	short	open/load	ON	OFF	OFF	OFF	ON
	>7V	short	short	open/load	short	ON	OFF	OFF	ON	OFF
	>7V	short	open/load	short	short	ON	OFF	ON	OFF	OFF
	>7V	open/load	short	short	short	ON	ON	OFF	OFF	OFF
	>7V	short	short	open/load	open/load	ON	OFF	OFF	ON	ON
	>7V	short	open/load	short	open/load	ON	OFF	ON	OFF	ON
-	>7V	open/load	short	short	open/load	ON	ON	OFF	OFF	ON
Splitter	>7V	short	open/load	open/load	short	ON	OFF	ON	ON	OFF
÷	>7V	open/load	short	open/load	short	ON	ON	OFF	ON	OFF
ŝ	>7V	open/load	open/load	short	short	ON	ON	ON	OFF	OFF
	>7V	short	open/load	open/load	open/load	ON	OFF	ON	ON	ON
	>7V	open/load	short	open/load	open/load	ON	ON	OFF	ON	ON
	>7V	open/load	open/load	short	open/load		ON	ON	OFF	ON
	>7V	open/load	open/load	open/load		ON	ON	ON	ON	OFF
	>7V	open/load	open/load	open/load	open/load	ON	ON	ON	ON	ON
	>7V	short	short	short	short	ON	OFF	OFF	OFF	OFF

_

Mechanical Specifications

Wind Loading @ Velocity, frontal	152.2 N @ 241 km/h (34.2 lbf @ 241 km/h)
Wind Loading @ Velocity, lateral	104.6 N @ 241 km/h (23.5 lbf @ 241 km/h)

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67
Corrosion Test Method	IEC 60068-2-11, 30 days

Packaging and Weights

Included	Mounting hardware
Mounting Hardware Weight	0.2 kg 0.441 lb
Weight, without mounting hardware	3.95 kg 8.708 lb



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 20, 2025