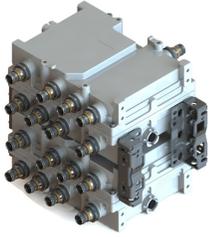


CQX681926Q-DS-43 | E14F15P22



Quad Quadplexer, 600/800/PCS/AWS+WCS+BRS, DC Sense, 4.3-10

- BTS-to-feeder and feeder-to-antenna application
- Automatic dc switching with dc sense
- Convertible mounting brackets
- New 4.3-10 connectors for improved PIM performance and size reduction
- DC Load Sense in Feeder-to-Antenna applications

Product Classification

Product Type Quadplexer

General Specifications

Color Gray

Common Port Label Common

Modularity 4-Quad

Mounting Pole | Wall

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

Height 200 mm | 7.874 in

Width 252 mm | 9.921 in

Depth 265 mm | 10.433 in

Ground Screw Diameter 6 mm | 0.236 in

Outline Drawing

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Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	1 dB
Return Loss, minimum	10 dB

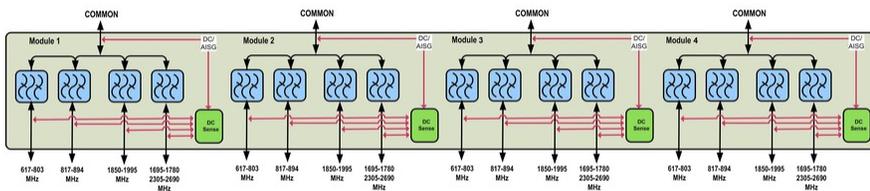
Electrical Specifications

Sub-module	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Branch	1	2	3	4	4
Port Designation	617-803	817-894	PCS	AWS+WCS+BRS	AWS+WS+BRS
License Band	USA 600, Band Pass USA 700, Band Pass USA 750, Band Pass LMR 750, Band Pass	CEL 850, Band Pass LMR 800, Band Pass	PCS 1900, Band Pass	AWS 1700, Band Pass AWS 2000, Band Pass WCS 2300, Band Pass	WCS 2300, Band Pass AWS 1700, Band Pass AWS 2000, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	617-803	817-894	1850-1995	1695-1780	2110-2200 2300-2690
Insertion Loss, typical, dB	0.2	0.2	0.3	0.3	0.15
Total Group Delay, maximum, ns	50	65	25	25	25
Return Loss, typical, dB	22	22	22	22	22
Isolation, minimum, dB	50	50	50	50	50
Input Power, RMS, maximum, W	120	120	120	120	120
Input Power, PEP, maximum, W	1200	1200	1200	1200	1200
3rd Order PIM, maximum, dBc	-161	-161	-161	-161	-161
3rd Order PIM Test Method	2 x 20 W CW tones				

Block Diagram



Logic Table

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Combining Mode Operation (Bottom)					COMMON	DC/AISG Path Selection	DC/AISG PORT Priority
PORT 1 617-803	PORT 2 817-894	PORT 3 1850-1995	PORT 4 1695-1780/2110-2690	RF Ports Input Voltage			
Any*	Any*	Any*	7 ≤ V ≤ 30	<7	<7	617-803 MHz "OFF" 817-894 MHz "OFF" 1850-1995 MHz to COMMON "OFF" 1695-1780/2110-2690 MHz "ON"	PORT 4 [Highest] PORT 1 PORT 3 PORT 2 [Lowest]
7 ≤ V ≤ 30	Any*	Any*	<7	<7	<7	617-803 MHz to COMMON "ON" 817-894 MHz "OFF" 1850-1995 MHz "OFF" 1695-1780/2110-2690 MHz "OFF"	
<7	Any*	7 ≤ V ≤ 30	<7	<7	<7	617-803 MHz "OFF" 817-894MHz "OFF" 1850-1995 MHz "ON"	
<7	7 ≤ V ≤ 30	<7	<7	<7	<7	1695-1780/2110-2690 MHz to COMMON "OFF" 617-803 MHz "OFF"	
<7	<7	<7	<7	<7	<7	817-894 MHz to COMMON "ON" 1850-1995 MHz "OFF" 1695-1780/2110-2690 MHz "OFF"	
ALL PORTS OFF							

* Any DC voltage applied in the ON (7-30V) or OFF (< 7V) ranges
 Note: When two or more DC/AISG are available, port with higher priority is bypassed to common

Splitting Mode Operation (Tower Top)					COMMON	DC/AISG Path Selection
PORT 1 617-803	PORT 2 817-894	PORT 3 1850-1995	PORT 4 1695-1780/2110-2690	RF Ports Impedance DC (Load Sense)		
Short	Short	Short	Short	Short	7 ≤ V ≤ 30	ALL PORTS OFF
Open/Load	Open/Load	Open/Load	Open/Load	Open/Load	7 ≤ V ≤ 30	ALL PORTS ON
One or more port(s) are Open/Load					7 ≤ V ≤ 30	DC/AISG will be passed to ALL Open/Load port(s)

Note: in this mode DC/AISG will be passed to all detected ports and blocked at shortened ones

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 13.4 L

Weight, without mounting hardware 15.5 kg | 34.172 lb