CTX6826-DS-43 | E14F10P48



Triplexer 600/800/AWS-PCS-WCS-BRS, DC Sense, 4.3-10

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

OBSOLETE

This product was discontinued on: March 30, 2024

Product Classification

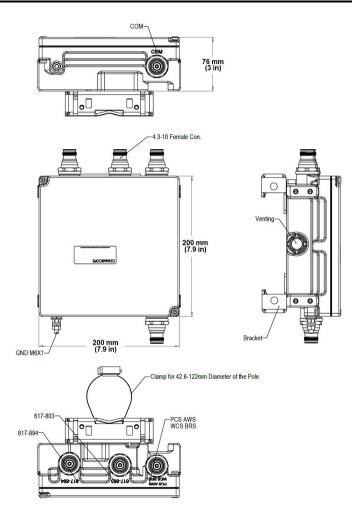
Product Type	Triplexer		
General Specifications			
Color	Gray		
Common Port Label	Common		
Modularity	1-Single		
Mounting	Pole Wall		
RF Connector Interface	4.3-10 Female		
RF Connector Interface Body Style	Long neck		
Dimensions			
Height	200 mm 7.874 in		
Width	200 mm 7.874 in		
Depth	76 mm 2.992 in		
Ground Screw Diameter	6 mm 0.236 in		
Mounting Pipe Diameter Range	42.6-122 mm		

Outline Drawing

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Electrical Specifications

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

Electrical Specifications, Common Port

Composite Power, RMS 250 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	See logic table
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

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Electrical Specifications, AISG	
AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	1 dB
Return Loss, minimum	15 dB

Electrical Specifications

Voltage

Sub-module	1	1	1
Branch	1	2	3
Port Designation	617-803	817-894	1695-2690
License Band	USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass	CEL 850, Band Pass LMR 800, Band Pass	AWS 1700, Band Pass PCS 1900, Band Pass WCS 2300, Band Pass TDD 2600, Band Pass

7-30 Vdc

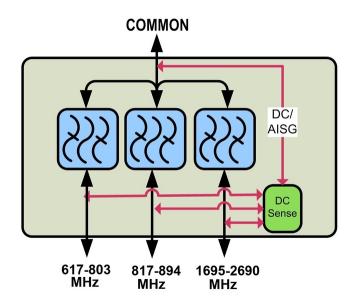
Electrical Specifications, Band Pass

Frequency Range, MHz	617-803	817-894	1695-2200 2300-2690
Insertion Loss, typical, dB	0.2	0.3	0.1
Total Group Delay, maximum, ns	60	65	25
Return Loss, typical, dB	22	22	22
Isolation, typical, dB	50	50	65
Input Power, RMS, maximum, W	120	120	200
Input Power, PEP, maximum, W	1200	1200	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

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Logic Table

		Operation (Bottom)	Combining Mode		
		COMMON	PORT 3 1695-2690	PORT 2 817-894	PORT 1 617-803
DC/AISG PORT Pr	DC/AISG Path Selection		put Voltage	RF Ports In	
	617-803 MHz "OFF"				
	817-894 MHz "OFF"	<7	7 ≤ V ≤ 30	Any*	Any*
	1695-2690 MHz "ON"				
PORT 3 [Highe	617-803 MHz "ON"				
PORT 3 [Highe	817-894 MHz "OFF"	<7	<7	Any*	7 ≤ V ≤ 30
PORT 2 [Lowe	1695-2690 MHz "OFF"			16	
PORT 2 [LOWE	617-803 MHz "OFF"				
	817-894 MHz "ON"	<7	<7	7 ≤ V ≤ 30	<7
	1695-2690 MHz "OFF"				
	ALL PORTS OFF	<7	<7	<7	<7

Note: When two or more DC/AISG are available, port with higher priority is bypassed to common

RF Ports Impedance DC (Load Sense)				
PORT 1 617-803	PORT 2 817-894	PORT 3 1695-2690	COMMON	DC/AISG Path Selection
Short	Short	Short	7 ≤ V ≤ 30	ALL PORTS OFF
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 be passed to ALL Open/Load port(s

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	3 L
Weight, without mounting hardware	3.8 kg 8.378 lb

Classification

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

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