CTX41727T-DS-43 | E14F10P52



Twin Triplexer 380-960/1695-2200/2300- 2700, DC-sense with 4.3-10 connectors

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

Product Classification

Triplexer
CTX41727
Gray
COMM
2-Twin
Pole Wall
Band clamps (2)
4.3-10 Female
Long neck
160 mm 6.299 in
165 mm 6.496 in

Ground Screw Diameter Mounting Pipe Diameter Range

Outline Drawing

Depth

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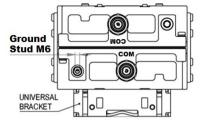
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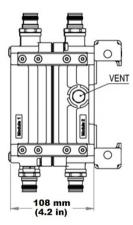
108 mm | 4.252 in

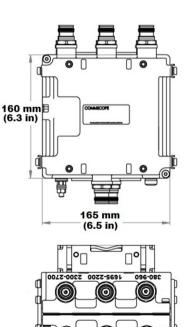
6 mm | 0.236 in

42.6-122 mm

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0

Electrical Specifications

00 AWS 2000 CEL 850 CEL 900 DCS 1800 EDD IMT 2600 LMR 750 LMR 800 LMR 900 NMT TDD 2300 TDD 2600 USA 600 USA 700 USA

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
Voltage	7-32 Vdc

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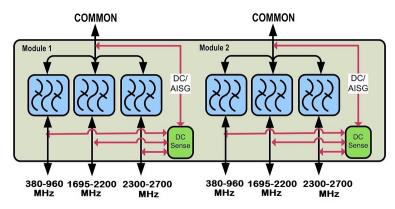
Electrical Specifications

Sub-module	1 2	1 2	1 2
Branch	1	2	3
Port Designation	380-960	1695-2200	2300-2700
License Band	APT 700, Band Pass LMR 750, Band Pass LMR 800, Band Pass USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass UHF 450, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass	PCS 1900, Band Pass AWS 1700, Band Pass AWS 2000, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass	WCS 2300, Band Pass TDD 2300, Band Pass TDD 2600, Band Pass IMT 2600, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	380-960	1695-2200	2300-2700
Insertion Loss, typical, dB	0.1	0.2	0.2
Total Group Delay, maximum, ns	20	25	25
Return Loss, typical, dB	20	20	20
Isolation, minimum, dB	50	50	50
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	2000	2000	2000
3rd Order PIM, maximum, dBc	-155	-155	-155
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



Logic Table

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		Operation (Bottom)	Combining Mode		
		COMMON	PORT 3 2300-2700	PORT 2 1695-2200	PORT 1 380-960
DC/AISG PORT P	DC/AISG Path Selection		put Voltage	RF Ports In	
	380-960 MHz "OFF"				
	1695-2200 MHz "OFF"	<7	7 ≤ V ≤ 30	Any* Any* 7 ≤ V ≤ 30	Any*
	2300-2700MHz "ON"				
PORT 3 [High	380-960 MHz "ON"			7 ≤ V ≤ 30 Any* <7	7 ≤ V ≤ 30
PORT 5 [High	1695-2200 MHz "OFF"	<7	<7		
PORT 2 [Low	2300-2700MHz "OFF"				
PORT 2 [LOW	380-960 MHz "OFF"				
	1695-2200 MHz "ON"	7 7 ≤V≤30 <7 <7 165	<7 7 5 V 5 30		
	2300-2700MHz "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

		Splitting Mode O	peration (Tower Top)	
	RF Ports Impedan	ce DC (Load Sense)		
PORT 1 380-960	PORT 2 1695-2200	PORT 3 2300-2700	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)

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

Mechanical Specifications

Wind Loading @ Velocity, frontal	36.0 N @ 150 km/h (8.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	17.0 N @ 150 km/h (3.8 lbf @ 150 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

Packaging and Weights

Included	Mounting hardware
Volume	2.8 L
Weight, without mounting hardware	4.7 kg 10.362 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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