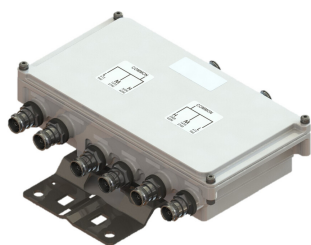# CTX61742T-DS-43 | E14F11P27

Twin Triplexer, 612-960/1695-2700/3300- 4200 MHz, 4.3-10 connectors, DC Sense

- 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
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- Ideal for small cell applications

Product Classification

Product Type	Triplexer

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

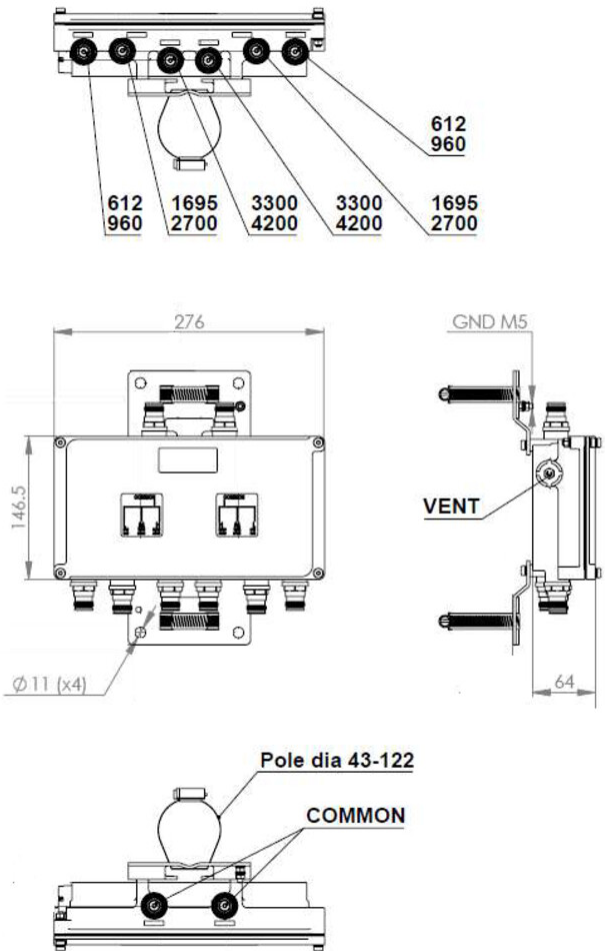|	
Height	276 mm | 10.866 in
Width	146.5 mm | 5.768 in
Depth	64 mm | 2.52 in
Ground Screw Diameter	5 mm | 0.197 in
Mounting Pipe Diameter Range	43–122 mm

Outline Drawing

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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	Auto sensing circuitry detects dc/AISG signal presence and selects path
dc/AISG Pass-through, combiner	dc Smart Bypass
dc/AISG Pass-through, demultiplexer	dc Smart Bypass
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

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Voltage   7–30 Vdc

Electrical Specifications

Sub-module	1 | 2	1 | 2	1 | 2
Branch	1	2	3
Port Designation	617-960	1695-2700	3300-4200
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 TDD 2300, Band Pass TDD 2600, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass IMT 2600, Band Pass	TDD 3500, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	**617–960**	**1695–2700**	**3300–4200**
Insertion Loss, typical, dB	0.15	0.2	0.25
Total Group Delay, maximum, ns	10	10	10
Return Loss, typical, dB	20	20	20
Isolation, minimum, dB	40 @ 1695–2700 50 @ 3300–4200	50 @ 612–960 50 @ 3300–4200	50 @ 612–960 40 @ 1695–2700
Input Power, RMS, maximum, W	140	140	80
Input Power, PEP, maximum, W	1600	1600	1600
3rd Order PIM, maximum, dBc	-161	-161	-155
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
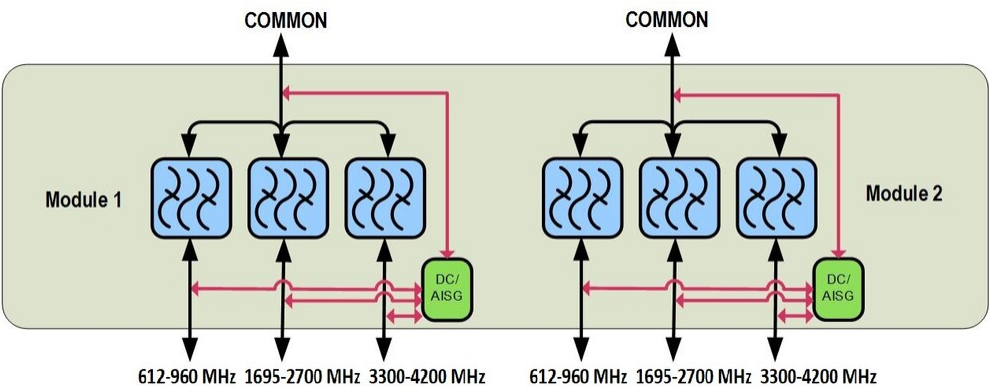
Environmental Specifications

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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	2.6 L
Weight, with mounting hardware	4.1 kg	9.039 lb
Weight, without mounting hardware	6.3 kg	13.889 lb

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