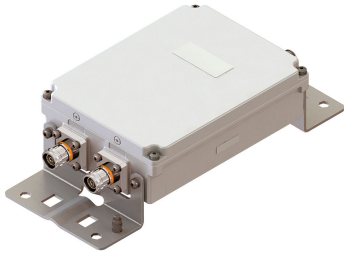


E14F05P08



Single Diplexer, 700-800//900 MHz, (DC Smart Bypass), with 4.3-10 connectors

- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE700 and LTE800 on existing site
- New 4.3-10 connectors for improved PIM performance and size reduction
- DC/AISG SMART bypass functionality
- Single configuration

OBSOLETE

This product was discontinued on: December 31, 2023

Replaced By:

E14F06P45

Twin Diplexer, 694-862 MHz/880-960 MHz, DC SMART bypass all, with 4.3-10 connectors

Product Classification

Product Type Diplexer

General Specifications

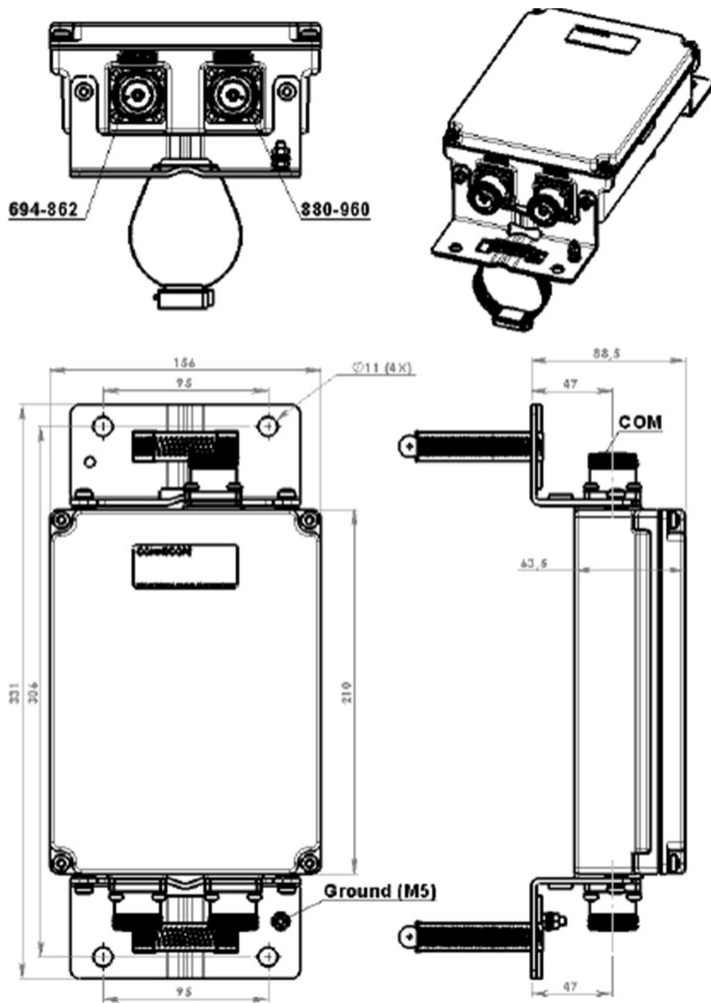
Product Family CBC79X
Color Gray
Common Port Label COM
Modularity 1-Single
Mounting Pole | Wall
Mounting Pipe Hardware Band clamps (2)
RF Connector Interface 4.3-10 Female
RF Connector Interface Body Style Medium neck

Dimensions

Height 210 mm | 8.268 in
Width 156 mm | 6.142 in
Depth 635 mm | 25 in
Mounting Pipe Diameter Range 42.6-122 mm

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Outline Drawing



Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 CEL 900 EDD 800 LMR 750 USA 700 USA 750

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	See logic table
dc/AISG Pass-through, combiner	dc Sensing
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

E14F05P08

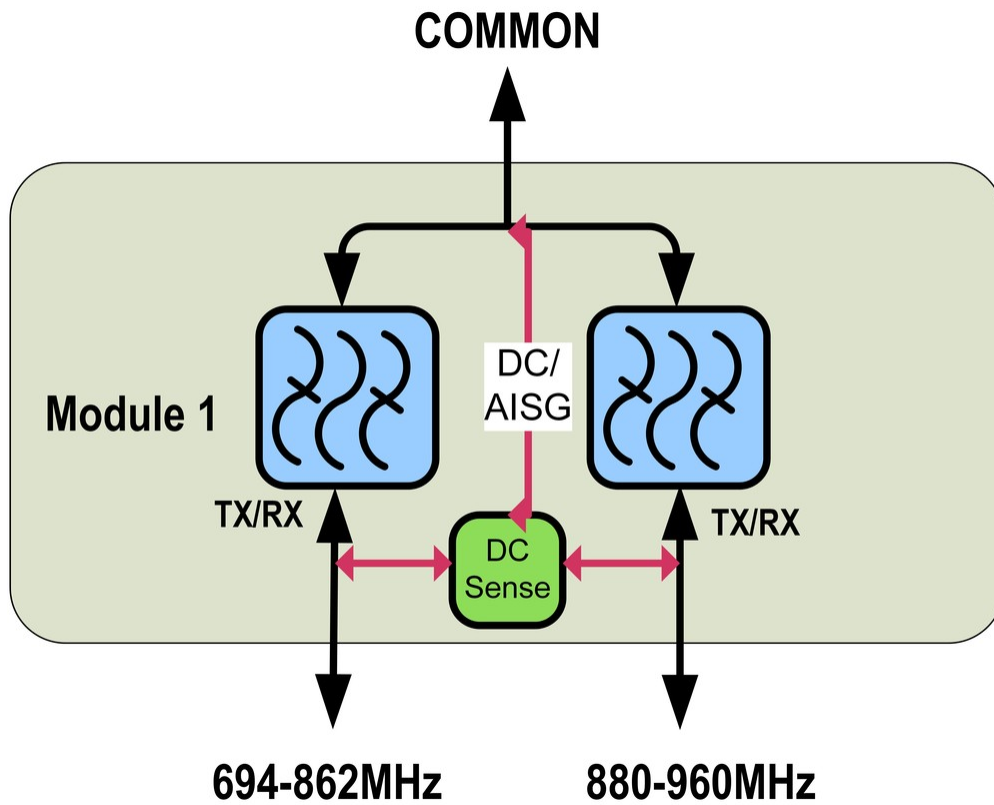
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	694-862	880-960
License Band	APT 700, Band Pass EDD 800, Band Pass LMR 750, Band Pass USA 700, Band Pass USA 750, Band Pass	CEL 900, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	694–862	880–960
Insertion Loss, typical, dB	0.2	0.2
Return Loss, typical, dB	22	22
Isolation, minimum, dB	50	50
Input Power, PEP, maximum, W	3000	3000
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



E14F05P08

Logic Table

COMBINER Mode: One of three Ports (1-2) is selected to the COM port								
MODE	COM	PORT 1 694-862	PORT 2 880-960	COM	PORT 1 694-862	PORT 2 880-960	PORT 1 694-862	PORT 2 880-960
COMBINER Mode	<7V	<7V	>7V	ON	OFF	ON	off	Green
	<7V	>7V	<7V	ON	ON	OFF	Green	off
	<7V	>7V	>7V	ON	ON	OFF	Green	Red

Note: LED indication is referred to normal (no alarm state)

SPLITTER Mode: COM Port is split to Ports (1-2) with valid impedance								
MODE	COM	PORT 1 694-862	PORT 2 880-960	COM	PORT 1 694-862	PORT 2 880-960	PORT 1 694-862	PORT 2 880-960
SPLITTER Mode	DC Port Impedance Ports 1,2,3,4 Voltage <7V			Selected Port			Led	
	>7V	short	open/load	ON	OFF	ON	OFF	Green
	>7V	open/load	short	ON	ON	OFF	Green	OFF
	>7V	open/load	open/load	ON	ON	ON	Green*	Green*
	>7V	short	short	ON	OFF	OFF	OFF	OFF

*If the input voltage is from 7V to 19V, the green LEDs will be on one at a time, each for 2 seconds indicating DC voltage is available at the RF port corresponding to the LED Green lighted
Alternating LEDs is merely a mechanism to save power consumption.

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	2.1 L
Weight, net	3.1 kg 6.834 lb
Weight, without mounting hardware	2.7 kg 5.952 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

