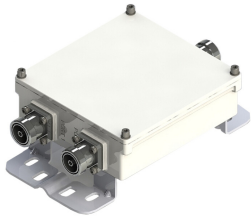# E11F13P01

Single Diplexer, LTE 700-800/GSM 900, AISG compatible, dc pass on all ports

This product will be discontinued on: December 30, 2024

Replaced By:

| E14F06P05 | Ultra Compact Single Diplexer 700-800/900, 4.3-10 connectors |

Product Classification

| Product Type	Diplexer

General Specifications

Product Family	CBC789
Color	Gray
Common Port Label	PORT 3 COMMON
Modularity	1-Single
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	60 mm | 2.362 in
Width	157 mm | 6.181 in
Depth	164 mm | 6.457 in
Mounting Pipe Diameter Range	40–160 mm

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Outline Drawing
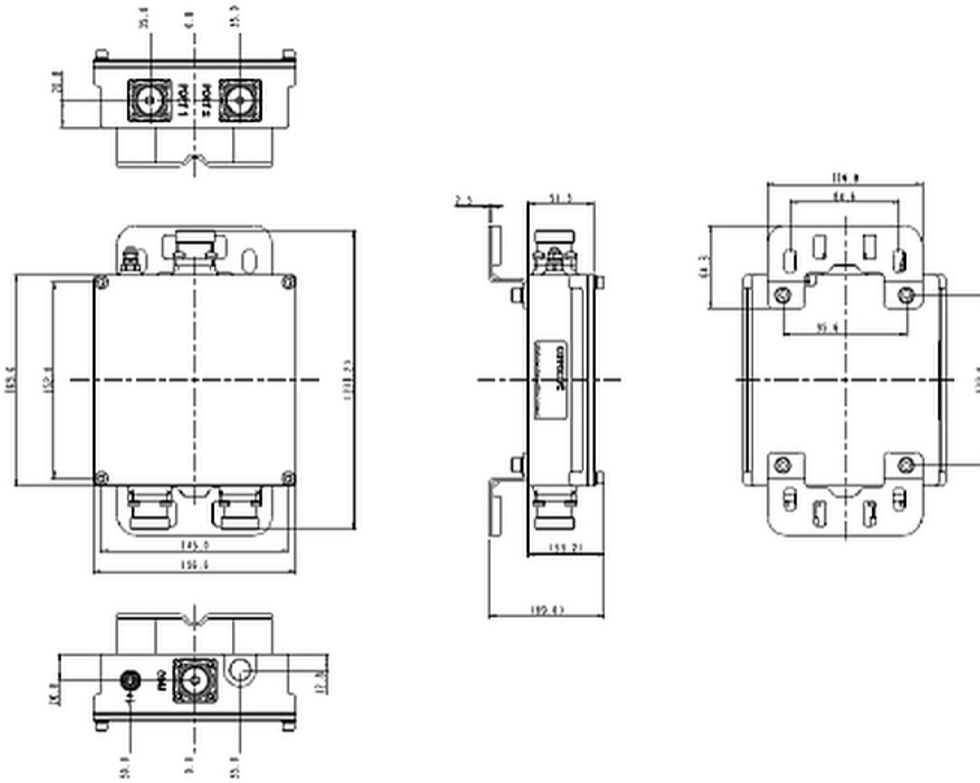
Electrical Specifications

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

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1	Branch 2
dc/AISG Pass-through, combiner	Branch 1	Branch 2
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

Sub-module	1 | 2	1 | 2
Branch	1	2
Port Designation	PORT 1 694-803	PORT 2 880-960

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License Band	APT 700, Band Pass EDD 800, Band Pass LMR 800, Band Pass	CEL 900, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	694–803	880–960
Insertion Loss, maximum, dB	0.3	0.3
Insertion Loss, typical, dB	0.25	0.25
Return Loss, minimum, dB	21	21
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	250	250
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

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Block Diagram

COMMON

DC/AISG DC/AISG

694-803 MHz **880-960 MHz**
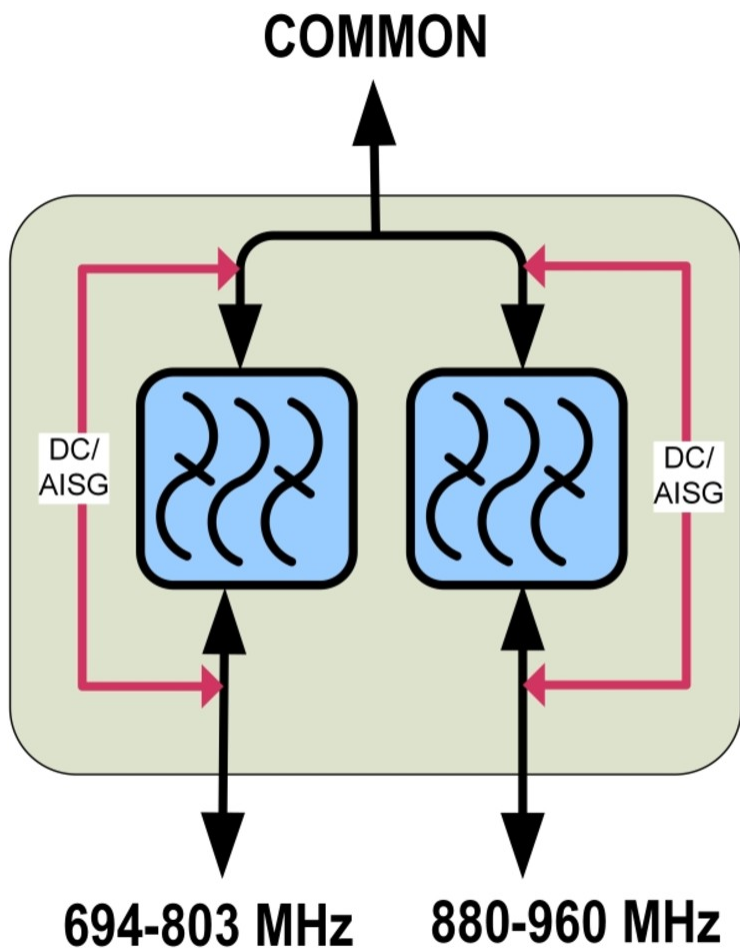
Environmental Specifications

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	1.6 L
Weight, net	3 kg | 6.614 lb

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Regulatory Compliance/Certifications

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

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