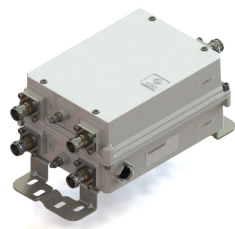


# E12F13P35-V



Twin Diplexer, 700/900 MHz, RJ40, dc block on all ports with connectors 4.3-10

- Industry leading PIM performance
- dc/AISG blocking on all ports
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

## Product Classification

**Product Type** Diplexer

## General Specifications

**Product Family** CBC79X

**Color** Gray

**Common Port Label** Port 3

**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** 307 mm | 12.087 in

**Width** 170 mm | 6.693 in

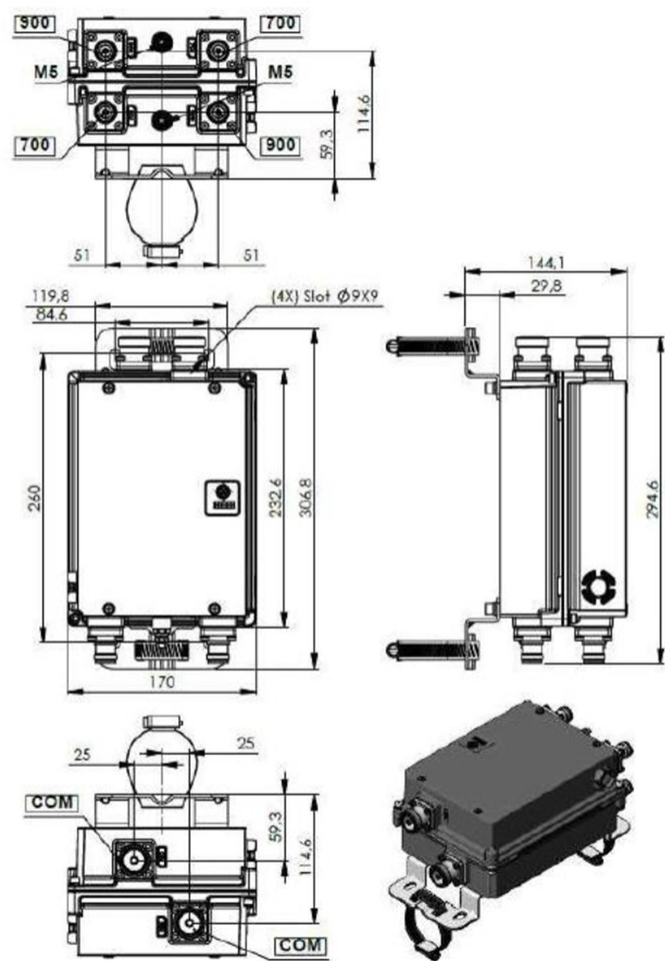
**Depth** 144 mm | 5.669 in

**Ground Screw Diameter** 5 mm | 0.197 in

**Mounting Pipe Diameter Range** 42.6–122 mm

## Outline Drawing

# E12F13P35-V



## Electrical Specifications

Insertion Loss Ripple, maximum	0.2 dB
Electrical Safety Standard	EN 60950
Electromagnetic Compatibility/Interference (EMC/EMI)	EN 55022   ETSI 301 489-1 V1.8.1
Impedance	50 ohm
License Band, Band Pass	APT 700   CEL 900   EDD 800   LMR 750

## Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	No dc/AISG pass-through
dc/AISG Pass-through, combiner	dc/AISG blocking on all ports
dc/AISG Pass-through, demultiplexer	dc/AISG blocking on all ports
Lightning Surge Current	10 kA

# E12F13P35-V

Lightning Surge Current Waveform

8/20 waveform

## Electrical Specifications

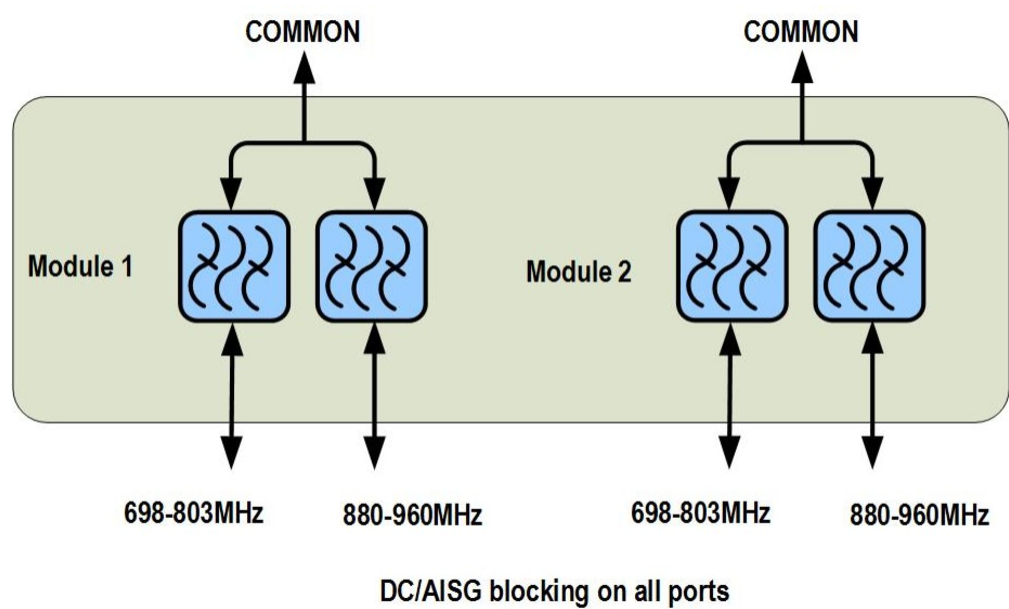
Sub-module	1   2	1   2
Branch	1	2
Port Designation	698-803	880-960
License Band	APT 700, Band Pass	CEL 900, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	698–803	880–960
Insertion Loss, maximum, dB	0.5	0.5
Insertion Loss, typical, dB	0.25	0.25
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Isolation, typical, dB	55	55
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-158	-158
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

# E12F13P35-V



## Material Specifications

**Finish**

Painted

## Mechanical Specifications

**Mechanical Shock Test Method**

IEC 60068-2-27

**Wind Speed, maximum**

200 km/h (124 mph)

## Environmental Specifications

**Operating Temperature**

-30 °C to +70 °C (-22 °F to +158 °F)

**Corrosion Test Method**

IEC 60068-2-11, 30 days

**Ingress Protection Test Method**

IEC 60529:2001, IP67

**Mean Time Between Failures, minimum**

1000000 h

**Thermal Shock Test Method**

IEC 60068-2-14

**UV Resistance Test Method**

IEC 60068-2-5

**Vibration Test Method**

IEC 60068-2-6

## Packaging and Weights

**Included**

Mounting hardware

**Volume**

4.5 L

**Weight, net**

5.6 kg | 12.346 lb

# E12F13P35-V

---

**Weight, without mounting hardware**

5.1 kg | 11.244 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

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