# E11F13P47-V

Diplexer, 700/900 MHz, RJ40, dc block on all ports with hybrid connectors 4.3-10 input and 7/16 output

- Industry leading PIM performance
- dc/AISG blocking on all ports
- Single configuration
- Hybrid connectors 4.3-10 input and 7/16 output

OBSOLETE

This product was 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** | 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 \| 7-16 DIN Female |
| **RF Connector Interface Body Style** | Long neck |

## Dimensions

| | |
|---|---|
| **Height** | 307 mm \| 12.087 in |
| **Width** | 170 mm \| 6.693 in |
| **Depth** | 101 mm \| 3.976 in |
| **RF Connector Length** | 25 mm \| 0.984 in |
| **Ground Screw Diameter** | 5 mm \| 0.197 in |
| **Mounting Pipe Diameter Range** | 42.6–122 mm |

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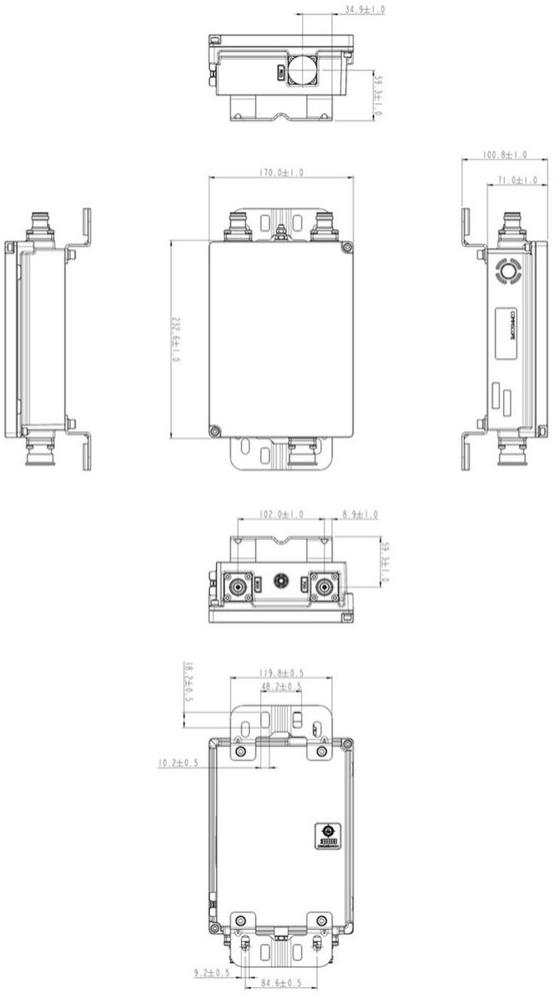
## Outline Drawing



## 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 |
| **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

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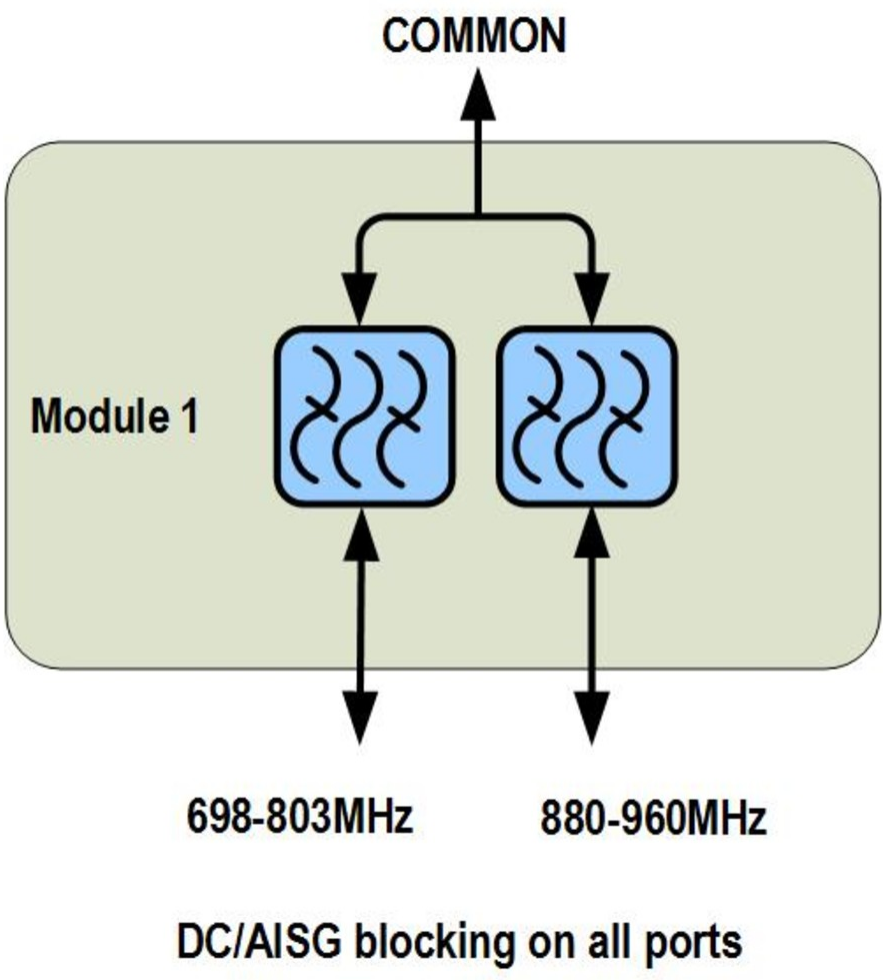


## Material Specifications

| | |
|---|---|
| **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 |
| **Environmental Test Method** | ETSI EN 300 019-1-4 |
| **Ingress Protection Test Method** | IEC 60529:2001, IP67 |

# E11F13P47-V

| | |
|---|---|
| **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** | 2.8 L |
| **Weight, net** | 4.1 kg \| 9.039 lb |

## Regulatory Compliance/Certifications

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