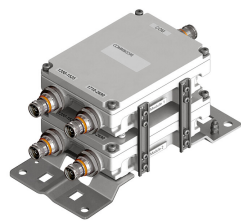


# E14F05P6590



Twin 2-pak Diplexer, 1350–1525 MHz/1710–2690 MHz, DC block on all ports, with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG blocking on all ports
- Designed for network modernization application, introduction of LTE1400 on existing site

## Product Classification

**Product Type** Diplexer

## General Specifications

**Product Family** CBC426

**Color** Gray

**Common Port Label** ANT

**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** 165 mm | 6.496 in

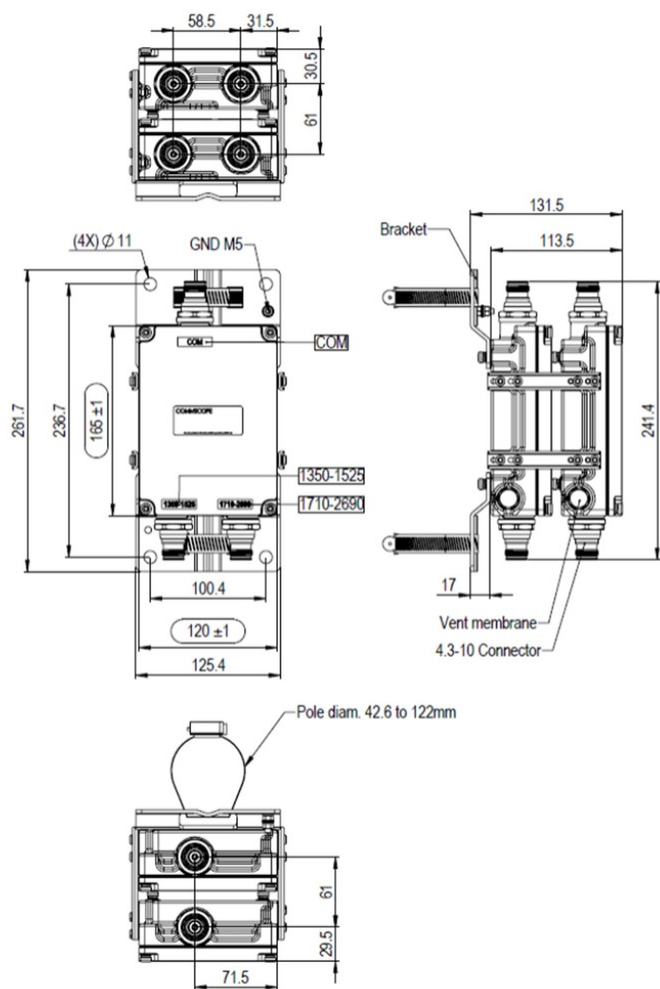
**Width** 120 mm | 4.724 in

**Depth** 113.5 mm | 4.469 in

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

**Mounting Pipe Diameter Range** 40–160 mm

## Outline Drawing



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   PDC 1500   SDL 1400   TDD 2300   TDD 2600   USA 700   USA 750   WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through, combiner	dc/AISG blocking on all ports
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications, AISG

# E14F05P6590

AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	1.4 dB
Return Loss, minimum	10 dB

## Electrical Specifications

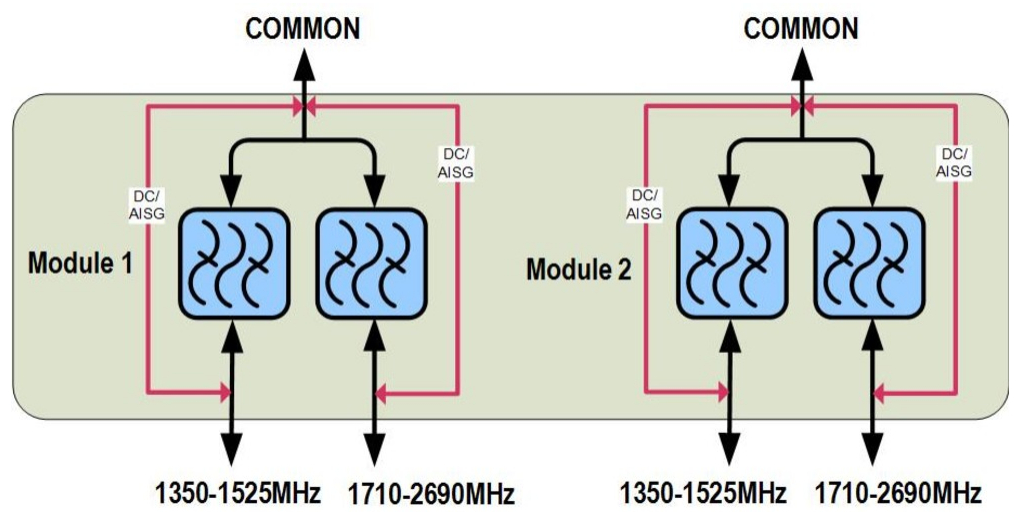
Sub-module	1   2	1   2
Branch	1	2
Port Designation	PORT 1 1350-1525	PORT 2 1710-2690
License Band	PDC 1500, Band Pass SDL 1400, Band Pass	AWS 1700, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass IMT 2600, Band Pass PCS 1900, Band Pass TDD 2300, Band Pass TDD 2600, Band Pass WCS 2300, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	1350–1525	1710–2690
Insertion Loss, typical, dB	0.2	0.25
Total Group Delay, typical, ns	8	8
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-163	-163
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

# E14F05P6590



## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%–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	2.5 L
Weight, net	4.3 kg   9.48 lb

## Regulatory Compliance/Certifications

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