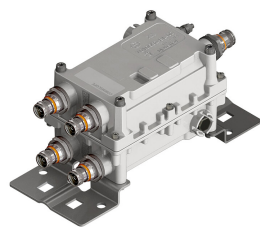


# E14F05P69



Twin Diplexer, 380–2200 MHz/2300–2690 MHz, dc pass low paired with high, with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE2300 and LTE2600 on existing site
- Twin configuration
- Minimal Insertion Loss
- Ultra-wideband low-band combiner
- Ultra-wideband high-band combiner
- dc/AISG pass-through on low frequency ports for Module1 and dc/AISG pass-through on high frequency for Module2

## Product Classification

**Product Type** Diplexer

## General Specifications

**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** Medium neck

## Dimensions

**Height** 183 mm | 7.205 in

**Width** 121 mm | 4.764 in

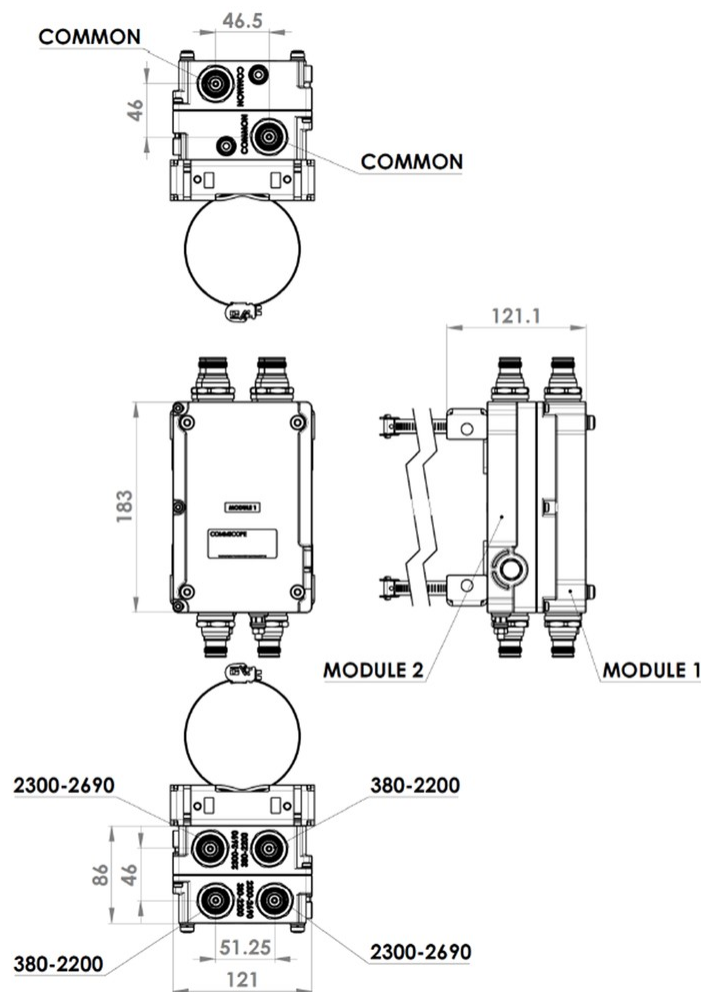
**Depth** 860 mm | 33.858 in

**Ground Screw Diameter** 5 mm | 0.197 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   AWS 1700   CEL 850   CEL 900   DCS 1800   EDD 800   IMT 2100   IMT 2600   LMR 750   LMR 800   LMR 900   PCS 1900   TDD 1900   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	Branch 1   Branch 2
dc/AISG Pass-through, demultiplexer	Branch 1   Branch 2
Lightning Surge Current	5 kA

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Lightning Surge Current Waveform	8/20 waveform
Electrical Specifications, AISG	
AISG Carrier	2176 KHz ± 100 ppm

## Electrical Specifications

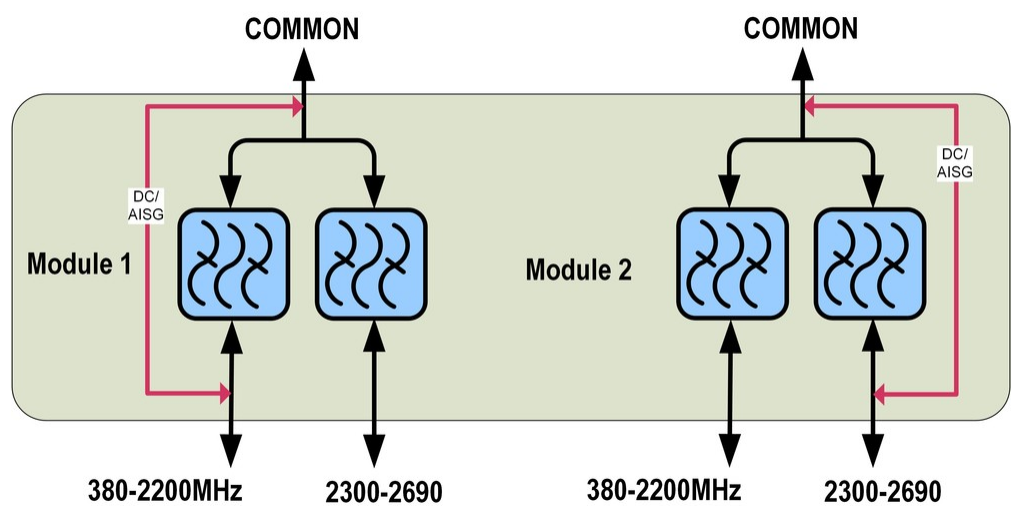
Sub-module	1   2	1   2
Branch	1	2
Port Designation	PORT 1 380-2200	PORT 2 2300-2690
License Band	APT 700, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass LMR 750, Band Pass LMR 800, Band Pass LMR 900, Band Pass USA 700, Band Pass USA 750, Band Pass DCS 1800, Band Pass TDD 1900, Band Pass IMT 2100, Band Pass	TDD 2600, Band Pass IMT 2600, Band Pass WCS 2300, Band Pass TDD 2300, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	380–2200	2300–2690
Insertion Loss, typical, dB	0.07	0.14
Total Group Delay, typical, ns		5
Return Loss, typical, dB	18	22
Isolation, minimum, dB	55	55
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-161	-161
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

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## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +65 °C (-40 °F to +149 °F)
<b>Corrosion Test Method</b>	IEC 60068-2-11, 30 days
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	1.9 L
<b>Weight, net</b>	4.5 kg   9.921 lb
<b>Weight, without mounting hardware</b>	3.9 kg   8.598 lb

## Regulatory Compliance/Certifications

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