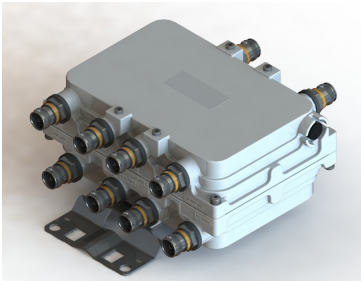


# E14F06P99



Quad Diplexer 612-2700/2300 DC/AISG bypass on all ports

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Designed for network Modernization, introduction of LTE2300 on existing site

## Product Classification

**Product Type** Diplexer

## General Specifications

**Color** Gray

**Modularity** 4-Quad

**Mounting Pipe Hardware** Band clamps

**RF Connector Interface** 4.3-10 Female

**RF Connector Interface Body Style** Long neck

## Dimensions

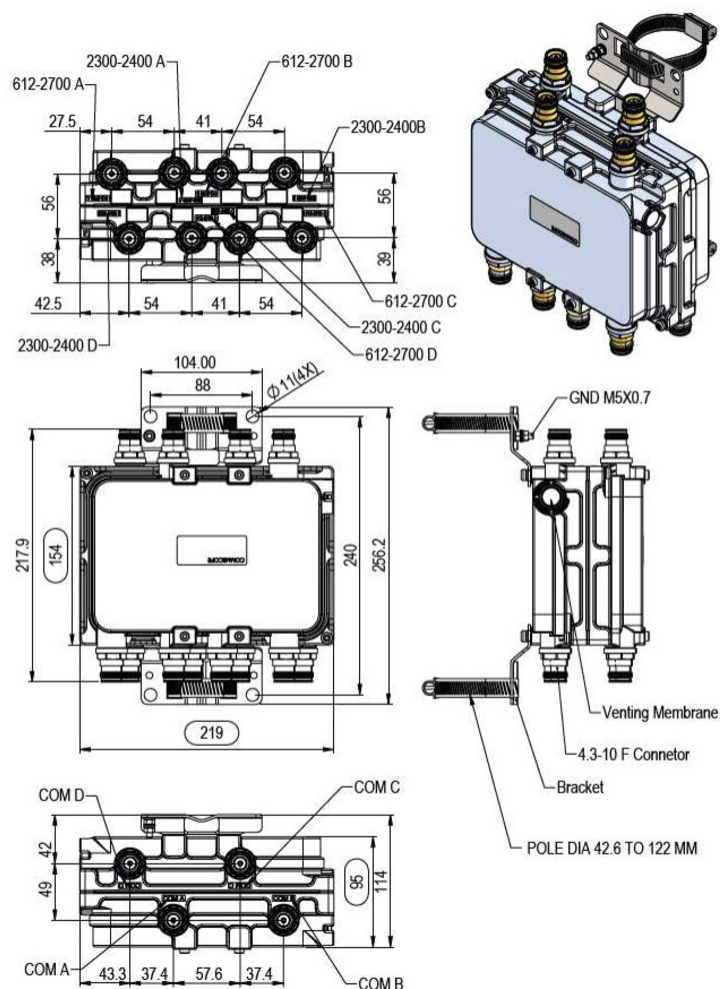
**Height** 154 mm | 6.063 in

**Width** 219 mm | 8.622 in

**Depth** 95 mm | 3.74 in

## Outline Drawing

# E14F06P99



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	APT 700   CEL 850   CEL 900   DCS 1800   IMT 2100   IMT 2600   WCS 2300

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through, combiner</b>	Branch 1   Branch 2
<b>dc/AISG Pass-through, demultiplexer</b>	Branch 1   Branch 2
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

## Electrical Specifications

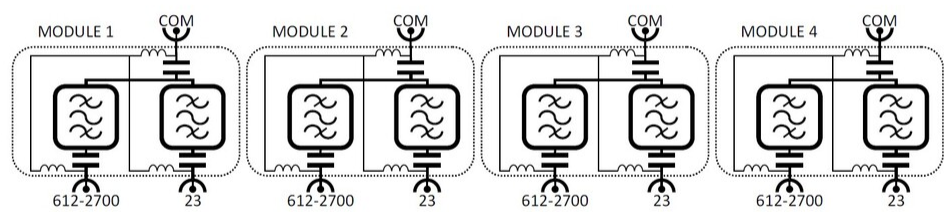
# E14F06P99

Sub-module	1   2	1   2
Branch	1	2
Port Designation	Port 612-2200;2496 to 2700 MHz	Port 2300 to 2400 MHz
License Band	APT 700, Band Pass USA 600, Band Pass CEL 850, Band Pass CEL 900, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass IMT 2600, Band Pass	WCS 2300, Band Pass TDD 2300, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	2300–2400	612–2200 2496–2690
Insertion Loss, typical, dB	0.2	0.2
Return Loss, typical, dB	20	20
Isolation, typical, dB	48	44
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, typical, dBc		-155
3rd Order PIM Test Method		2 x 20 W CW tones

## Block Diagram



## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °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

# E14F06P99

---

## Packaging and Weights

<b>Volume</b>	3.3 L
<b>Weight, net</b>	4.9 kg   10.803 lb
<b>Weight, without mounting hardware</b>	4.7 kg   10.362 lb