

# SDX159-DL-43 | E14F06P06



## Ultra Compact Single Diplexer 80-2690/3300-5925, DC Low, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Single configuration
- dc/AISG pass-through on low frequency ports

## Product Classification

**Product Type** Diplexer

## General Specifications

**Color** Gray

**Modularity** 1-Single

**Mounting** Pole | Wall

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 71 mm | 2.795 in

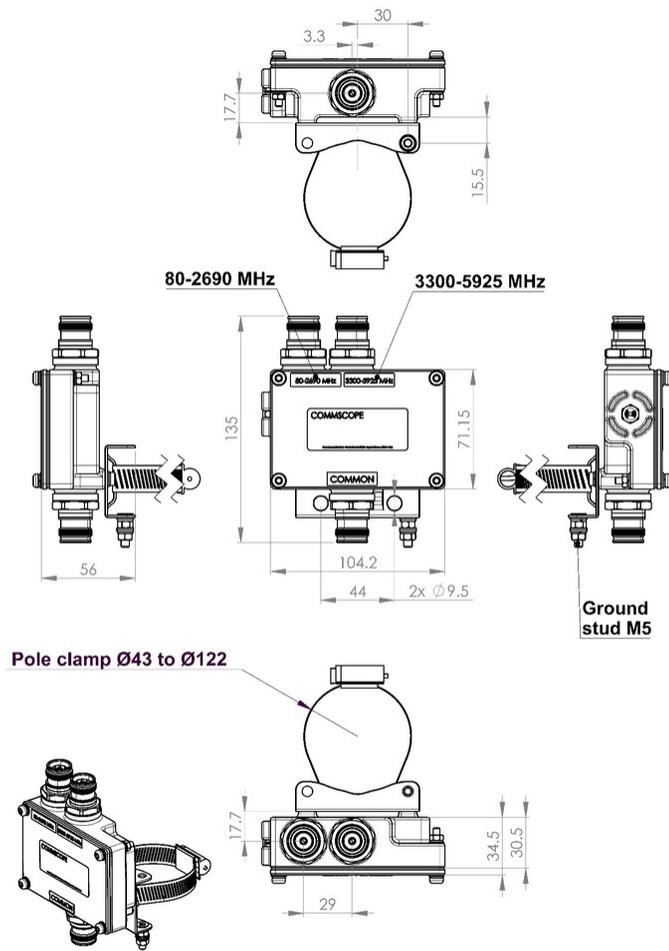
**Width** 104 mm | 4.094 in

**Depth** 34.5 mm | 1.358 in

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

## Outline Drawing

# SDX159-DL-43 | E14F06P06



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	APT 700   AWS 1700   AWS 2000   CEL 850   CEL 900   DCS 1800   IMT 2100   IMT 2600   LAA 5000   LMR 750   LMR 800   NMT 450   PCS 1900   SDL 1400   TDD 2300   TDD 2600   TDD 3500   TDD 5000   USA 600   USA 700   USA 750   WCS 2300

## Electrical Specifications, dc Power/Alarm

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

# SDX159-DL-43 | E14F06P06

---

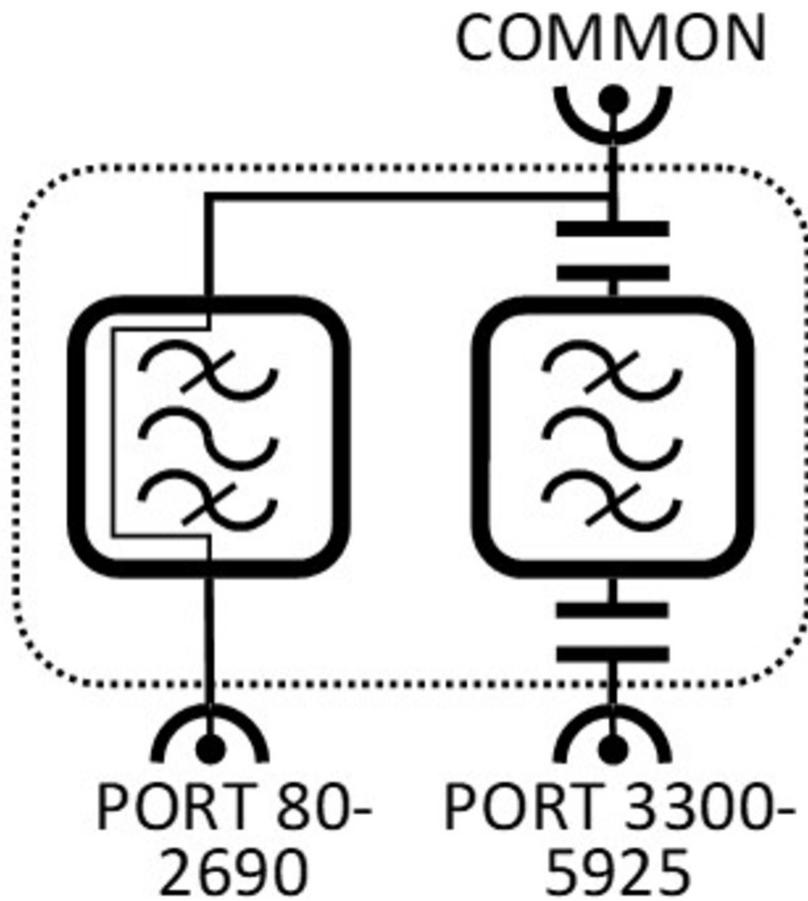
## Electrical Specifications

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2
<b>Port Designation</b>	PORT 1 80-2690	PORT 2 3300-5925

## Electrical Specifications, Band Pass

<b>Frequency Range, MHz</b>	<b>80–2690</b>	<b>3300–5925</b>
<b>Insertion Loss, typical, dB</b>	0.2	0.2
<b>Return Loss, typical, dB</b>	20	20
<b>Isolation, typical, dB</b>	52	52
<b>Input Power, RMS, maximum, W</b>	100	100
<b>Input Power, PEP, maximum, W</b>	1000	1000
<b>3rd Order PIM, typical, dBc</b>	-161	-161
<b>3rd Order PIM Test Method</b>	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram



## 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>Environmental Test Method</b>	ETSI EN 300 019-1-4
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	0.26 L
<b>Weight, with mounting hardware</b>	0.85 kg   1.874 lb
<b>Weight, without mounting hardware</b>	0.75 kg   1.653 lb