# 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

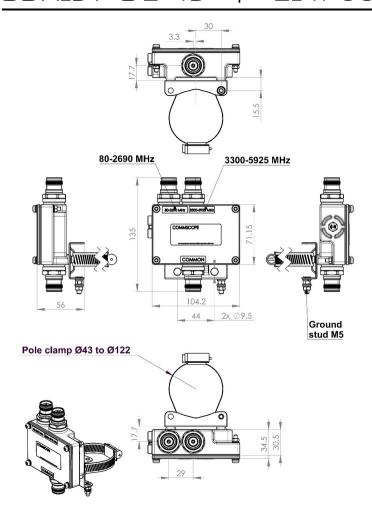
**Depth** 34.5 mm | 1.358 in

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

## Outline Drawing



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### **Electrical Specifications**

**Impedance** 50 ohm

**License Band, Band Pass**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

dc/AISG Pass-through, combinerBranch 1dc/AISG Pass-through, demultiplexerBranch 1Lightning Surge Current5 kA

**Lightning Surge Current Waveform** 8/20 waveform



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## **Electrical Specifications**

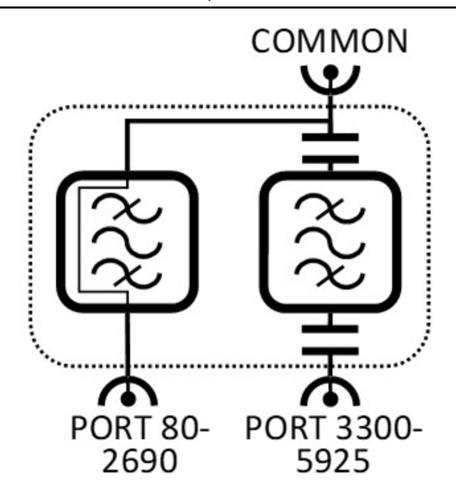
Sub-module	1   2	1   2
Branch	1	2

 Port Designation
 PORT 1 80-2690
 PORT 2 3300-5925

## Electrical Specifications, Band Pass

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

## Block Diagram



#### **Environmental Specifications**

**Operating Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$ 

**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

Packaging and Weights

**Included** Mounting hardware

Volume 0.26 L

Weight, with mounting hardware  $0.85 \text{ kg} \mid 1.874 \text{ lb}$  Weight, without mounting hardware  $0.75 \text{ kg} \mid 1.653 \text{ lb}$ 



Page 4 of 4