

# SPX78192126-43 | E14F20P02



## Compact Pentaplexer, 700/850/PCS/AWS/WCS-BRS, 4.3-10

- BTS-to-feeder and feeder-to-antenna application
- dc/AISG blocking on all ports
- Compact form factor with reduced size and weight
- New 4.3-10 connectors for improved PIM performance and size reduction
- Available in single (SPX78192126-43) and twin (SPX78192126T-43) configurations

## Product Classification

**Product Type** Pentaplexer

## General Specifications

**Color** Gray

**Common Port Label** Common

**Modularity** 1-Single

**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** 180 mm | 7.087 in

**Width** 252 mm | 9.921 in

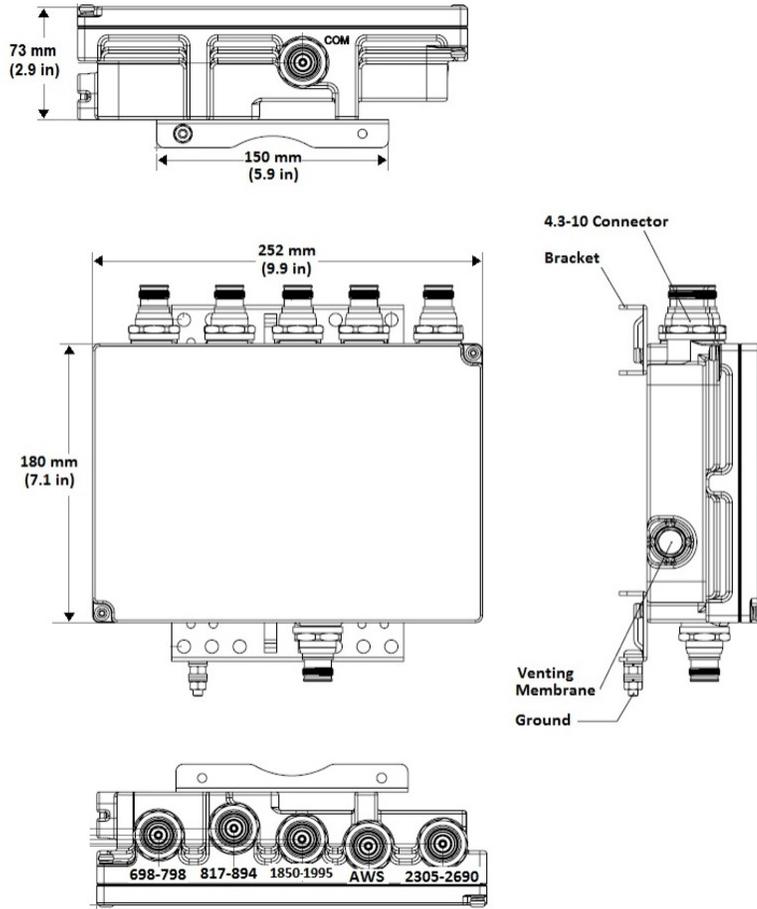
**Depth** 73 mm | 2.874 in

**Ground Screw Diameter** 6 mm | 0.236 in

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

## Outline Drawing

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	AWS 1700   CEL 850   IMT 2600   LMR 750   LMR 800   PCS 1900   TDD 2600   USA 700   USA 750   WCS 2300

## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Method</b>	No dc/AISG pass-through
<b>Lightning Surge Current</b>	5 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

## Electrical Specifications

<b>Sub-module</b>	1   2	1   2	1   2	1   2	1   2
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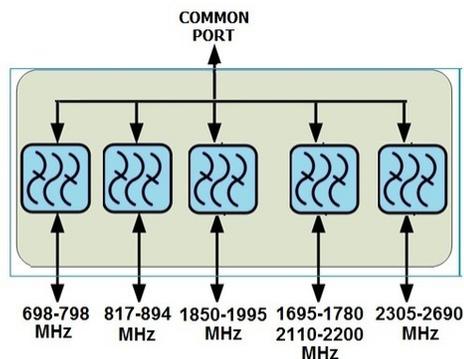
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Branch	1	2	3	4	5
<b>Port Designation</b>	698–798	817–894	AWS	1850–1995	WCS+BRS
<b>License Band</b>	LMR 750, Band Pass USA 700, Band Pass USA 750, Band Pass	CEL 850, Band Pass LMR 800, Band Pass	AWS 1700, Band Pass	PCS 1900, Band Pass	WCS 2300, Band Pass TDD 2600, Band Pass IMT 2600, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	698–798	817–894	1695–1780 2110–2200	1850–1995	2300–2690
<b>Insertion Loss, typical, dB</b>	0.2	0.3	0.3	0.3	0.2
<b>Total Group Delay, maximum, ns</b>	40	55	25	55	25
<b>Return Loss, minimum, dB</b>	20	20	20	20	20
<b>Return Loss, typical, dB</b>	22	22	22	22	22
<b>Isolation, typical, dB</b>	50	50	50	50	50
<b>Input Power, RMS, maximum, W</b>	100	100	100	100	100
<b>Input Power, PEP, maximum, W</b>	1000	1000	1000	1000	1000
<b>3rd Order PIM, typical, dBc</b>	-161	-161	-161	-161	-161
<b>3rd Order PIM Test Method</b>	2 x 20 W CW tones	2 x 20 W CW tones	1 x 20 W AWS CW tone 1 x 20 W PCS CW tone	2 x 20 W CW tones	2 x 20 W CW tones

## 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>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

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## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Mounting Hardware Weight</b>	0.5 kg   1.102 lb
<b>Weight, net</b>	4 kg   8.818 lb