# and the rest

Product Classification

Product Type	Diplexer
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	Long neck
Dimensions	

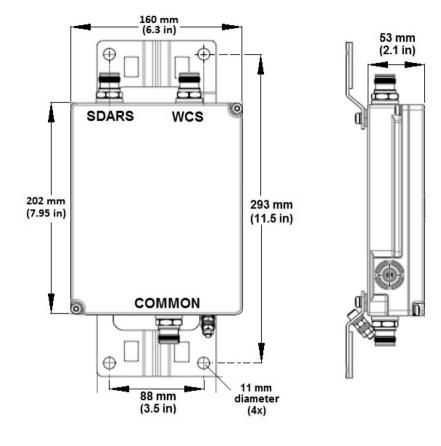
Height	202 mm   7.953 in
Width	160 mm   6.299 in
Depth	53 mm   2.087 in
Ground Screw Diameter	6 mm   0.236 in

## Outline Drawing

#### Diplexer for WCS ABCD blocks and SiriusXM repeater bands

- DC/AISG pass-through on WCS port
- New 4.3-10 connectors for improved PIM performance and size reduction





## Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	WCS 2300

#### Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 1
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

#### Electrical Specifications, AISG

**AISG Carrier** 

2176 KHz ± 100 ppm

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Insertion Loss, maximum	1 dB
Return Loss, minimum	15 dB

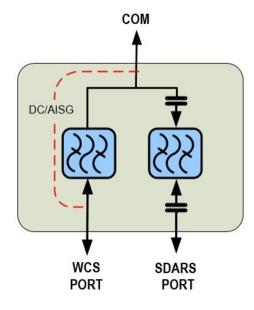
## **Electrical Specifications**

Sub-module	1	1	1
Branch	1		2
Port Designation	WCS	WCS	SDARS 2300
License Band	WCS 2300, Band Pass	WCS 2300, Band Pass	WCS 2300, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	2305.5-2317.9	2347.1-2359.5	2324-2341.5
Insertion Loss, typical, dB	0.5	0.6	1.1
Total Group Delay, maximum, ns	120	120	150
Return Loss, minimum, dB	20	20	20
Isolation, typical, dB	50	50	50
Input Power, RMS, maximum, W		50	2
Input Power, PEP, maximum, W		500	40
3rd Order PIM, maximum, dBc		-161	-161
3rd Order PIM Test Method		2 x 20 W CW tones	2 x 20 W CW tones

## Block Diagram



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## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%-100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

#### Packaging and Weights

Included	Mounting hardware
Volume	1.7 L
Weight, net	2.2 kg   4.85 lb

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