

CBC23SR-43 | E14F05P84



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

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

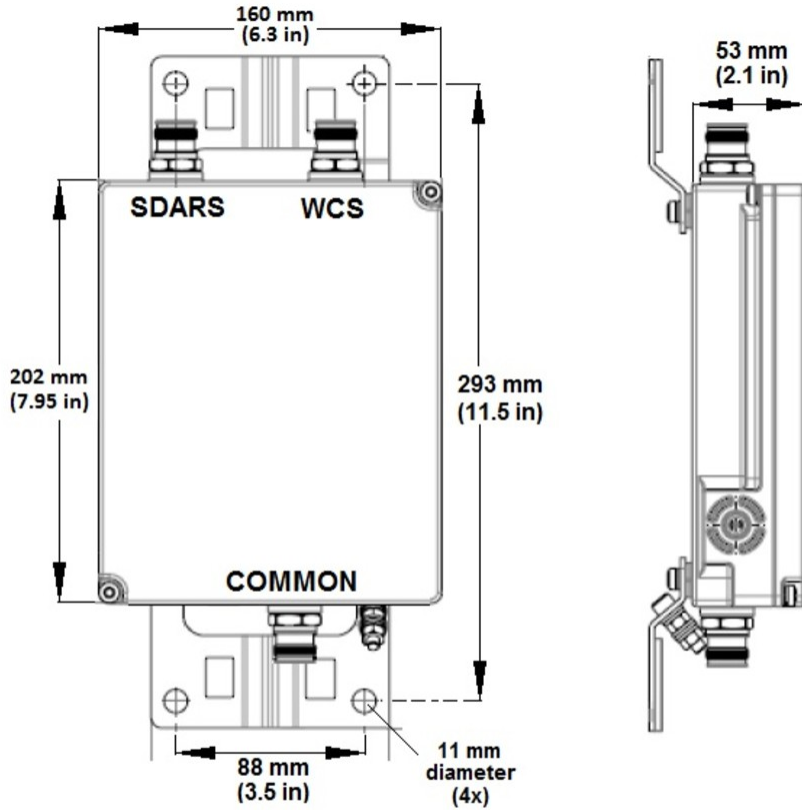
Width 160 mm | 6.299 in

Depth 53 mm | 2.087 in

Ground Screw Diameter 6 mm | 0.236 in

Outline Drawing

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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 \pm 100 ppm
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Insertion Loss, maximum	1 dB
Return Loss, minimum	15 dB

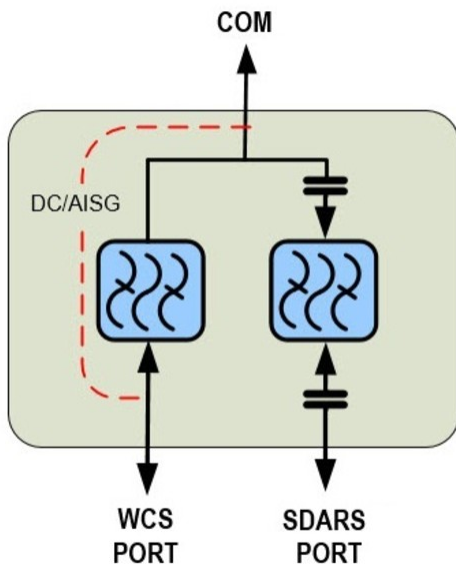
Electrical Specifications

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