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CommScope CMAX-D-43-UW-I53 Low PIM Directional In-building Antenna, 617-960 MHz, 1695-2700, 3300-3800 and 4900-6000MHz

SKU
ACC-CS-00017
MPN
CMAX-D-43-UW-I53

Description

The CommScope CMAX-D-43-UW-I53 is a robust Low PIM Directional In-building Antenna designed for efficient wireless communication across a wide frequency range of 617 MHz to 6000 MHz. This panel antenna is compact, measuring 301 x 296 x 126 mm and weighing 2.4 kg, constructed from durable Polyvinyl Chloride (PVC) to withstand temperatures from -40 °C to 60 °C.

Engineered for superior performance, the antenna offers a vertical polarisation with a 3rd Order PIM rating of -153 dBc, ensuring minimal interference and optimal signal integrity. It supports a 50 Ω impedance and handles up to 50 W input power. The antenna provides a peak gain ranging from 4.8 dBi to 7.2 dBi across its operational bands, with varying azimuth beamwidths for targeted coverage, making it suitable for diverse in-building applications.

Equipped with a single 4.3-10 Female RF connection via a 420 mm 0.141 Semi-Rigid cable, this antenna ensures reliable connectivity...

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CommScope

CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what’s next and push the boundaries of ...

RF Specification

Start Frequency
617 MHz
Stop Frequency
6000 MHz
Max. Input Power
50 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Cable Series	Length
1	4.3-10 Female	0.141 Semi-Rigid	420 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth
617 MHz	698 MHz	5.8 dBi	> 10.9 dB	< 1.8:1	90°
698 MHz	960 MHz	5.8 dBi	> 10.9 dB	< 1.8:1	86°
1710 MHz	2700 MHz	7.2 dBi	> 10.9 dB	< 1.8:1	58°

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth
3300 MHz	3800 MHz	6.5 dBi	> 11.7 dB	< 1.7:1	60°
4900 MHz	6000 MHz	4.8 dBi	> 10.9 dB	< 1.8:1	68°

Physical Specification

Subtype
Panel / Sector
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
60 °C
PIM, 3rd Order
-153 dBc
Dimensions
301 x 296 x 126
Materials
Polyvinyl Chloride (PVC)
Weight
2.4 kg
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS