



DB583E-SN

1-port omni antenna, 698–790 MHz, 360° HPBW, fixed electrical tilt

- Light weight, low profile omnidirectional antenna ideal for low to moderate gain applications
- Integral dual purpose mount allows top or side mounting

Electrical Specifications

Frequency Band, MHz	698–790
Gain, dBi	5.1
Beamwidth, Horizontal, degrees	360
Beamwidth, Vertical, degrees	30.0
Beam Tilt, degrees	0
VSWR Return Loss, dB	1.5 14.0
PIM, 5th Order, 2 x 20 W, dBc	-153
Input Power per Port, maximum, watts	400
Polarization	Vertical
Impedance	50 ohm

Electrical Specifications, BASTA*

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Operating Frequency Band	698 – 790 MHz
Antenna Type	Omni
Band	Single band
Includes	V-bolts
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	1
RF Connector Quantity, low band	1
RF Connector Interface	7-16 DIN Female
Color	Horizon blue
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Brass
Radome Material	Fiberglass, UV resistant
RF Connector Location	Bottom
Wind Loading, maximum	70.0 N @ 100 mph 15.7 lbf @ 100 mph
Wind Speed, maximum	241 km/h 150 mph

DB583E-SN

Dimensions

Length	952.5 mm		37.5 in
Outer Diameter	38.1 mm		1.5 in
Net Weight, without mounting kit	3.0 kg		6.6 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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