

# 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

## General Specifications

Antenna Type	Omni
Band	Single band
Color	Horizon blue
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Brass
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	1
RF Connector Quantity, total	1

## Dimensions

Length	952.5 mm   37.5 in
Outer Diameter	38.1 mm   1.5 in

## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 790 MHz
Polarization	Vertical

## Electrical Specifications

Frequency Band, MHz	698–790
Gain, dBi	5.1
Beamwidth, Horizontal,	360

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degrees	
Beamwidth, Vertical, degrees	30
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

## Mechanical Specifications

Wind Loading at Velocity, maximum	15.7 lbf @ 100 mph   70.0 N @ 100 mph
Wind Speed, maximum	241 km/h   149.75 mph

## Packaging and Weights

Included	V-bolts
Net Weight, without mounting kit	3 kg   6.614 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant/Exempted



### \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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