

# DB589-Y



1-port omni antenna, 890–960 MHz, 360° HPBW, fixed electrical tilt, fits on 38–60 mm (1-1/2 to 2 3/8 in) OD pipe

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

## General Specifications

<b>Antenna Type</b>	Omni
<b>Band</b>	Single band
<b>Color</b>	Horizon blue
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Brass
<b>RF Connector Interface</b>	N Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	0
<b>RF Connector Quantity, mid band</b>	0
<b>RF Connector Quantity, low band</b>	1
<b>RF Connector Quantity, total</b>	1

## Dimensions

<b>Length</b>	2476 mm   97.48 in
<b>Net Weight, without mounting kit</b>	5.2 kg   11.464 lb
<b>Outer Diameter</b>	38.1 mm   1.5 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	890 – 960 MHz
<b>Polarization</b>	Vertical

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>890–960</b>
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<b>Gain, dBi</b>	11.1
<b>Beamwidth, Horizontal, degrees</b>	360
<b>Beamwidth, Vertical, degrees</b>	9
<b>Beam Tilt, degrees</b>	0
<b>VSWR   Return loss, dB</b>	1.5   14.0
<b>PIM, 5th Order, 2 x 20 W, dBc</b>	-153
<b>Input Power per Port, maximum, watts</b>	400

## Mechanical Specifications

<b>Wind Loading @ Velocity, maximum</b>	176.1 N @ 100 mph (39.6 lbf @ 100 mph)
<b>Wind Speed, maximum</b>	201 km/h (125 mph)

## Packaging and Weights

<b>Included</b>	V-bolts
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below 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
UK-ROHS	Compliant



## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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