

# DB809KE-XT

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1-port omni antenna, 806–869 MHz, 360° HPBW, fixed electrical tilt

- Omnidirectional antenna
- Rugged, durable design, heavy duty radome for minimum tip deflection
- Invert mountable

## 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>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	1
<b>RF Connector Quantity, total</b>	1

## Dimensions

<b>Length</b>	3708 mm   145.984 in
<b>Outer Diameter</b>	76 mm   2.992 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	806 – 869 MHz
<b>Polarization</b>	Vertical

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>806–869</b>
<b>Gain, dBi</b>	11.1
<b>Beamwidth, Horizontal,</b>	360

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## degrees

<b>Beamwidth, Vertical, degrees</b>	8
<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>	-150
<b>Input Power per Port, maximum, watts</b>	500

## Mechanical Specifications

<b>Wind Loading at Velocity, maximum</b>	364.8 N @ 100 mph   82.0 lbf @ 100 mph
<b>Wind Speed, maximum</b>	362 km/h   224.936 mph

## Packaging and Weights

<b>Net Weight, without mounting kit</b>	12 kg   26.455 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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



## Included Products

DB5091-3 — Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance



Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 88.9 mm | 3.5 in

**Compatible Diameter, minimum** 33 mm | 1.299 in

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware | Pipe

**Packaging quantity** 2

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

