

DB809KE-XT



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

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	3708 mm 145.984 in
Outer Diameter	76 mm 2.992 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	806 – 869 MHz
Polarization	Vertical

Electrical Specifications

Frequency Band, MHz	806–869
Gain, dBi	11.1
Beamwidth, Horizontal,	360

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degrees

Beamwidth, Vertical, degrees	8
Beam Tilt, degrees	0
VSWR Return loss, dB	1.5 14.0
PIM, 5th Order, 2 x 20 W, dBc	-150
Input Power per Port, maximum, watts	500

Mechanical Specifications

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

Packaging and Weights

Net Weight, without mounting kit	12 kg 26.455 lb
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Regulatory Compliance/Certifications

Agency	Classification
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 www.commscope.com/ProductCompliance
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
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