

# 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>Net Weight, without mounting kit</b> | 12 kg   26.455 lb    |
| <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 @ Velocity, maximum</b> | 364.8 N @ 100 mph (82.0 lbf @ 100 mph) |
| <b>Wind Speed, maximum</b>              | 362 km/h (225 mph)                     |

## 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                                                                                                             |
| UK-ROHS       | Compliant/Exempted                                                                                                             |



## Included Products

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

## \* Footnotes

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