

# 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

## OBSOLETE

This product was discontinued on: March 1, 2021

## 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>                           | 952.5 mm   37.5 in |
| <b>Net Weight, without mounting kit</b> | 3 kg   6.614 lb    |
| <b>Outer Diameter</b>                   | 38.1 mm   1.5 in   |

## Electrical Specifications

|                                 |               |
|---------------------------------|---------------|
| <b>Impedance</b>                | 50 ohm        |
| <b>Operating Frequency Band</b> | 698 – 790 MHz |
| <b>Polarization</b>             | Vertical      |

## Electrical Specifications

# DB583E-SN

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|   |                |
|---|----------------|
| <b>Frequency Band, MHz</b>                  | <b>698–790</b> |
| <b>Gain, dBi</b>                            | 5.1            |
| <b>Beamwidth, Horizontal, degrees</b>       | 360            |
| <b>Beamwidth, Vertical, degrees</b>         | 30             |
| <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> | 70.0 N @ 100 mph (15.7 lbf @ 100 mph) |
| <b>Wind Speed, maximum</b>              | 241 km/h (150 mph)                    |

## Packaging and Weights

|                 |         |
|-----------------|---------|
| <b>Included</b> | V-bolts |
|-----------------|---------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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 |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |



## \* Footnotes

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