

# DB810E-PS



1-port omni antenna, 746–869 MHz, 360° HPBW, fixed electrical tilt

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

**OBSOLETE**

This product was discontinued on: November 30, 2023

## General Specifications

Antenna Type	Omni
Band	Single band
Color	Light Gray (RAL 7035)
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, high band	0
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	1
RF Connector Quantity, total	1

## Dimensions

Length	4483 mm   176.496 in
Net Weight, without mounting kit	17 kg   37.479 lb
Outer Diameter	76 mm   2.992 in

## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	746 – 869 MHz

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Polarization	Vertical
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## Electrical Specifications


Frequency Band, MHz	746–869
Gain, dBi	12.1
Beamwidth, Horizontal, degrees	360
Beamwidth, Vertical, degrees	6
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 @ Velocity, maximum	444.8 N @ 100 mph (100.0 lbf @ 100 mph)
Wind Speed, maximum	241 km/h (150 mph)

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## Included Products

DB5091-3	– Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members
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## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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