

# 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

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

## Dimensions

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	746 – 869 MHz

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**Polarization** Vertical

## Electrical Specifications

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

## Regulatory Compliance/Certifications

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

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