

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

General Specifications

Antenna Type	Omni
Band	Single band
Color	Light gray
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	4483 mm 176.496 in
Outer Diameter	76 mm 2.992 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	746 – 869 MHz
Polarization	Vertical

Electrical Specifications

Frequency Band, MHz	746–869
Gain, dBi	12.1
Beamwidth, Horizontal,	360

DB810E-PS

degrees	
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 at Velocity, maximum	100.0 lbf @ 100 mph 444.8 N @ 100 mph
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Net Weight, without mounting kit	17 kg 37.479 lb
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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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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DB5091-3



Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	88.9 mm 3.5 in
Compatible Diameter, minimum	33 mm 1.299 in

Material Specifications

Material Type	Galvanized steel
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Packaging and Weights

Included	Brackets Hardware Pipe
Packaging quantity	2

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

