



1-port omni antenna, 870–960 MHz, 360° HPBW, fixed electrical tilt

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

Electrical Specifications

Frequency Band, MHz	870–960
Gain, dBi	12.1
Beamwidth, Horizontal, degrees	360
Beamwidth, Vertical, degrees	4.2
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
Polarization	Vertical
Impedance	50 ohm

General Specifications

Operating Frequency Band	870 – 960 MHz
Antenna Type	Omni
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	1
RF Connector Quantity, low band	1
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Brass
Radome Material	Fiberglass, UV resistant
RF Connector Location	Bottom
Wind Loading, maximum	418.1 N @ 100 mph 94.0 lbf @ 100 mph
Wind Speed, maximum	322 km/h 200 mph

DB810KE-SY

Dimensions

Length	5105.0 mm 201.0 in
Outer Diameter	76.0 mm 3.0 in
Net Weight, without mounting kit	15.9 kg 35.1 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)



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