R2T58
RooTenna® 2 Panel Antenna



ROOTENNA® 2 PANEL ANTENNA: 4940 TO 5850 MHz OPERATION

The RooTenna® 2 panel antenna offered by Laird was developed to allow integration of the customer's radio equipment inside the weatherproof compartment. The expanded radio compartment is big enough to house transceivers, amplifiers, and other electronic equipment. Two sizes are available - the regular and a lower profile RooTenna®.

The antenna design utilizes a wideband element array over a solid 8.5" square backplane for consistent performance over a wide bandwidth. The housing is UV stabilized ABS plastic. The backplate is alodine coated aluminum with stainless steel fasteners. All bracket fasteners are stainless steel for corrosion protection. There are qty 4 8-32 threaded standoffs provided inside the enclosure for customer mounting. Included with the Roo2 are a customer mounting plate and a patented RJ45-ECS ethernet connector system.

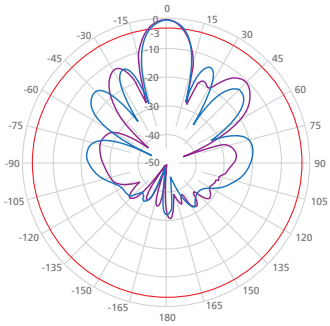
FEATURES RoHS

- RooTenna®, the antenna with a pouch!
- Compact, low profile 19 dBi antenna gain
- Wideband operation 4940-5850MHz
- Includes patented RJ45-ECS ethernet connector system and customer mounting plate
- Vertical or horizontal polarization, beamwidth 15 deg
- Available with RPSMA, RPTNC, MC Card, MMCX, RPMMCX and U.FL antenna connector

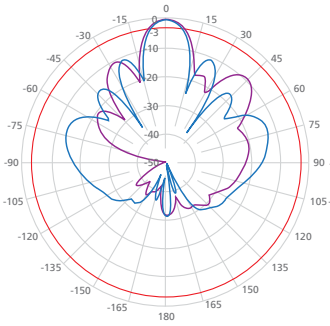
MARKETS

- Integrated radio/antenna units
- High speed subscriber units
- Amplified antennas
- 802.11a/b/g applications

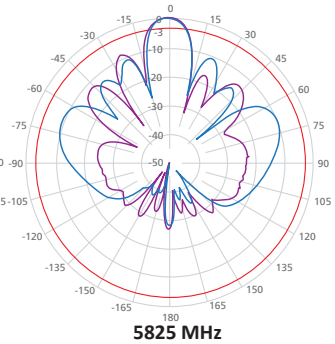
ANTENNA PATTERNS



2400 MHz



5150 MHz



5825 MHz

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SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range	4940		5850	MHz
VSWR (4940-4990MHz <2.0)		1.5:1		
Impedance		50		OHM
Input Power			20	W
Operating Temperature	-45		+70	Deg C
Gain		19		dBi
3db Beam Angle (E-Plane)		15		Deg
3db Beam Angle (H-Plane)		15		Deg
Front to Back	25			dB
Weight		29 (0.8)		oz (kg)
Dimension R2T58W		10.75" x 10.75" x 3.5" (267 x 267 x 89)		in (mm)
Inside Dim R2T58W		9" x 9" x 2.25" (229 x 229 x 57)		in (mm)
Dimension R2T58LW		10.75" x 10.75" x 2.6" (267 x 267 x 67)		in (mm)
Inside Dim R2T58LW		9" x 9" x 1.5" (229 x 229 x 38)		in (mm)

WIND LOADING (LBS)

MODEL	100 MPH	125 MPH
R2T58-19	27.8	43.4

SYSTEM ORDERING INFORMATION

R2T58W-xx	4940-5850MHz RooTenna® regular profile
R2T58LW-xx	4940-5850MHz RooTenna® low profile

(Please note: Where "xx" appears, please specify connector. Connector options include RPSMA, RPTNC, MC Card, MMCX, RPMMCX and U.FL))

NOTES

- All shipments F.O.B. Schaumburg, IL 60173







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