



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.

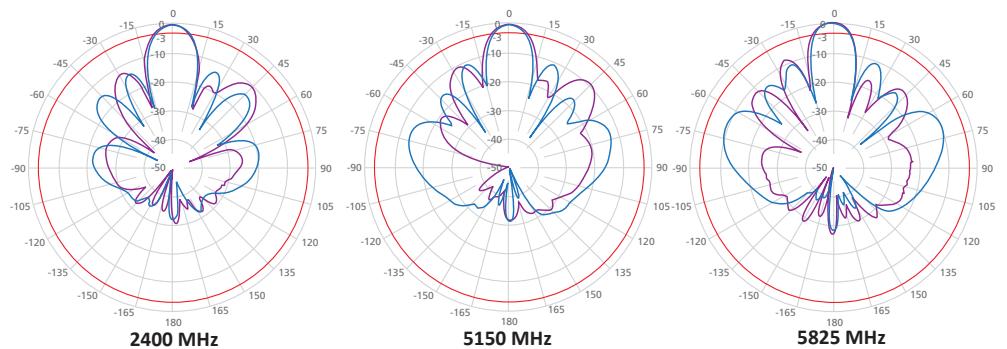
FEATURES 

- 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, RPYMMCX and U.FL antenna connector

MARKETS

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

ANTENNA PATTERNS



Americas: +1.847 839.6927
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

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 |

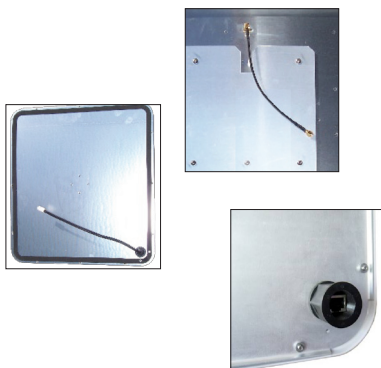
SYSTEM ORDERING INFORMATION

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



ANT-DS-R2T58 1115

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