



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





The tri-band RD2458-5 series of antennas are high-gain (3 dB @ 2.4 GHz and 5 dBi @ 5 GHz) omnidirectional antennas designed for indoor use. Rugged and reliable, the heavy duty knuckle of the antenna gives angular detents at 0, 45, and 90°. The antenna features a 360° horizontal transmission pattern and a 90° vertical transmission pattern. These antennas offer a choice of connector options for maximum design flexibility (SMA, RPSMA, RPTNC and N male).

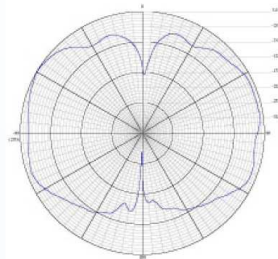
### FEATURES

- Tri-band operation: 2.4 GHz, 5.3 GHz, 5.8 GHz
- 0, 45, and 90° knuckle detents (N-male not applicable)
- Extends range of wireless access points or wireless bridges
- Available in SMA, RPSMA, RPTNC and N-male connector versions

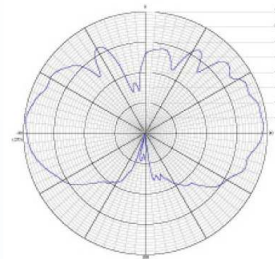
### APPLICATIONS

- 802.11a/b/g wireless equipment
- OEM equipment
- Amplified antennas
- 802.11a/b/g applications
- WiMAX

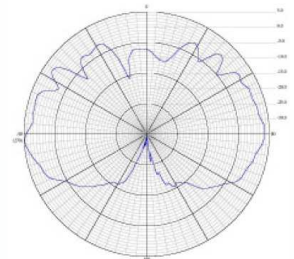
### ANTENNA PATTERNS



2450 MHz  
Elevation Pattern



5150 MHz  
Elevation Pattern



5750 MHz  
Elevation Pattern

### global solutions: local support.™

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12  
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

### SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range	2400		2483	MHz
Gain (RD2458-5)	2400 MHz	3		dBi
	5150 MHz	5		
	5400 MHz	5		
	5725 MHz	5		
Gain (RD2458-5-NM)	2400 MHz	2.2		dBi
	5150 MHz	4		
	5725 MHz	5		
VSWR		1.5:1		
Impedance		50		OHM
Input Power			10	W
Operating Temperature	-10		+70	°C
Weight (RD2458-5)		0.8 (22.7)		oz (g)
Weight (RD2458-5-NM)		0.8 (22.7)		oz (g)
Dimension (Dia x Height) RD2458-5		6.1 x 0.5 D (155 x 12.7 D)		in (mm)
Dimension (Dia x Height) RD2458-5-NM		7.6 x 0.5 D (193 x 12.7 D)		in (mm)
Dimension R2T2458LW		10.75 x 10.75 2.6 (267 x 267 x 67)		in (mm)
Inside Dim R2T2458LW		9 x 9 x 1.5 (229 x 229 x 38)		in (mm)

### SYSTEM ORDERING INFORMATION

RD2458-5-SMA	Tri-band 2.4/5.3/5.8 GHz Omnidirectional – SMA male connector
RD2458-5-RSMA	Tri-band 2.4/5.3/5.8 GHz Omnidirectional – RPSMA male connector
RD2458-5-RTNC	Tri-band 2.4/5.3/5.8 GHz Omnidirectional – RPTNC male connector
RD2458-5-NM	Tri-band 2.4/5.3/5.8 GHz Omnidirectional – N male connector

### NOTES

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

ANT-DS-RD2458-5 0611

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2011 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.