Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

RD2458-5
Tri-Band 2.4, 5.3, 5.8 GHz Antenna



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).

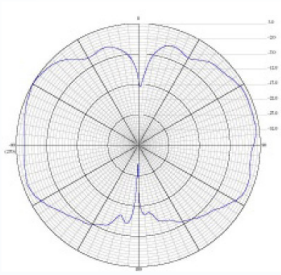
FEATURES

- 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

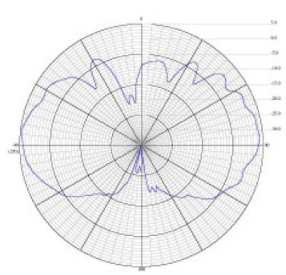
APPLICATIONS

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

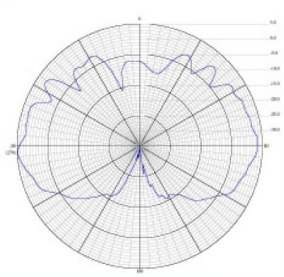
ANTENNA PATTERNS



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

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SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range	2400		2483	MHz
Gain (RD2458-5)	2400 MHz 5150 MHz 5400 MHz 5725 Mhz	3 5 5 5		dBi
Gain (RD2458-5-NM)	2400 MHz 5150 MHz 5725 Mhz	2.2 4 5		dBi
VSWR		1.5:1		
Impedance		50		OHM
Input Power			10	W
Operating Temperature	-10		+70	ºC
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

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