



## RD2458-5

### Tri-Band 2.4, 5.3, and 5.8 GHz Antenna

Laird's tri-band RD2458-5 series offers high-gain (3dBi/2.4 GHz & 5 dBi/5GHz) omnidirectional performance. These antennas are designed for indoor use and are both rugged and reliable. The heavy duty knuckle designed into the antenna gives the flexibility for angular adjustments 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, and RPTNC).

### FEATURES AND BENEFITS

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

#### ELECTRICAL SPECIFICATIONS

Part Number	RD2458-5			
Operating Frequency (MHz)	2400	5150	5400	5725
Gain (dBi)	3	5	5	5
VSWR	1.5:1			
Nominal Impedance (Ohms)	50			
Max Power - Ambient 25°C (W)	10			
Operating Temperature - °C (°F)	-10 TO +70 (+14 TO +158)			

#### MECHANICAL SPECIFICATIONS

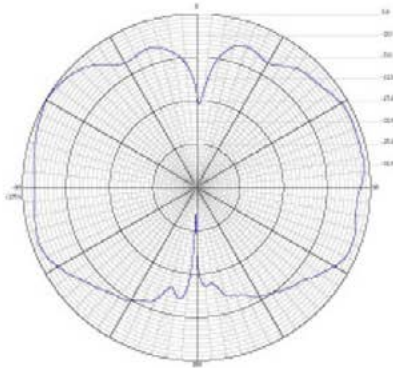
Dimensions (Height x Diameter) - mm (in.)	155 X 12.7 (6.1 X 0.5)
Weight - g (oz.)	22.7 (0.8)

### CONFIGURATION

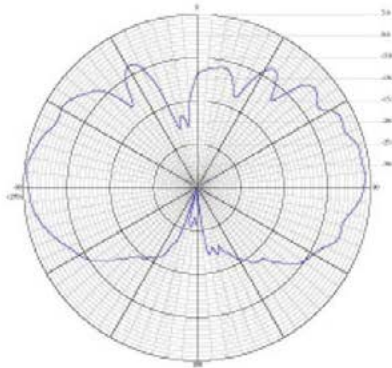
PART NUMBER	CONNECTOR
RD2458-5-SMA	SMA male connector
RD2458-5-RSMA	RPSMA male connector
RD2458-5-RTNC	RPTNC male connector

## RADIATION PATTERNS

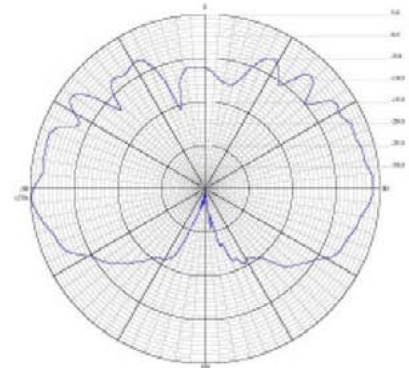
### 2450 MHz



### 5150 MHz



### 5750 MHz



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08/22 Original



Certificate Number:  
12823CE50060

## EU Declaration of Conformity (DoC)

MANUFACTURER - COMPANY NAME, FULL POSTAL ADDRESS (INCLUDE COUNTRY OF ORIGIN AS THE ADDRESS):

TE Connectivity Corporation  
3101 Fulling Mill Road, Middletown, PA 17057, United States

Certificate Number:  
12823CE50060

Declare, under our sole responsibility, that the product(s):

**Product description: Whip Dipole - Product family covering below PN.**

TE PN	Description	TE PN	Description
001-0001-L	ANTENNA,2.4 GHZ Dipole	0600-00024	ANT,900MHZ,2.0DBI SWIVEL, RP SMA, 7IN
001-0002-L	ANTENNA,900 MHZ, Dipole	0600-00025	ANT,900MHZ,2.0DBI STRAIGHT, FL, MMCX, 7I
001-0009	ANTENNA,2.4/5.5 GHz Dipole	0600-00028	ANT,900MHZ,2.5DBI
001-0010	ANTENNA,2.4 GHZ Dipole,IP67	0600-00029	ANT,900MHZ,2.5DBI
001-0011	ANTENNA,900 MHZ Dipole,IP67	0600-00039	ANT,2.4GHZ,5.0DBI SWIVEL, FL W/ U.FL, 7I
001-0012	ANTENNA,2.4/5.5 GHz Dipole,IP67	0600-00040	ANT,2.4GHZ,2.0DBI SWIVEL, FL W/ U.FL, 4I
001-0028	Antennas-Dipoles,, 868 MHz	0600-00048	ANT,900MHz, 2dBi
001-0042	ANT,2.5GHZ DIPOLE, RP TNC PLUG,IP67	0600-00052	ANT, Dipole, RA
0600-00010	ANT,2.4GHZ,5.0DBI	IN24-5RD-RSMA	Dipol,RDuck,Fixed,RSMAM 2400-2485MHz,5dB
0600-00019	ANT,900MHZ,2.0DBI	IN24-5RD-RTNC	Dipol,RDuck,Fixed,RTNM 2400- 2485MHz,5dBi
0600-00020	ANT,868MHZ,2.0DBI	IN24-5RD-SMA	Dipol,RDuck,Fixed,SMAM 2400- 2485MHz,5dBi
RD2458-5-OTDR- NM	Dipol,RDuck,FIXED,NM 2400-5850MHz,5dBi,O	IN7-3RD-SMA	Dipol,RDuck,Fixed,SMAM 700MHz,3dBi
RD2458-5-SMA	Dipol,RDuck,Fixed,SMA M 2400-5850MHz,5dBi	RD2458-5-NM	Dipol,RDuck,Fixed,NM 2400- 5850MHz,5dBi



Certificate Number:  
12823CE50060

to which this Declaration of Conformity relates, in the form as delivered, are in conformity with the provisions of the following European Directive(s):

Applicable	Directives	Revision
<input checked="" type="checkbox"/>	2011/65/EU Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS2)	1

SIGNED BY OR ON BEHALF OF THE MANUFACTURER AS AUTHORISED REPRESENTATIVE:

**Mike Tryson**

**VP and CTO DND Engineering**

**13-01-2023**

NAME and SIGNATURE

TITLE

DATE

The declaration certifies the conformity to the specified directives but contains no assurance of properties. The safety documentation accompanying the product shall be considered in detail.