

# **S24493TS**

# MIMO Antenna 2400-2500 MHz/4900-5900 MHz

The Laird Connectivity S24493TS is a dual-band three-element omni-directional antenna for use in 802.11n MIMO applications. Housed in a compact, low-profile PVC/acrylic radome, the antenna can be mounted to a variety of drop-ceiling grids using the integrated spring clips. It can also be mounted to a flush surface via the four mounting holes. Each of the three MIMO antenna elements is connected to the WLAN access point via a low loss, plenum-rated coax pigtail. The radiation patterns are uniform and symmetrical, providing high level signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 4.9-5.9 GHz bands. A wide choice of coax lengths and connector types are available.

#### **FEATURES AND BENEFITS**

- Vertically-polarized and omni-directional
- · Compact, low-profile housing
- Wide choice of coax length and connector types
- 2.4-2.5 GHz and full wide-band 4.9-5.9 GHz performance

#### **APPLICATIONS**

- 802.11n MIMO
- Offices, hotels, and college campuses
- Airports and hospitals
- Bus terminals and train stations
- Museums, libraries, and retail malls

ELECTRICAL SPECIFICATION			
Model Name	S24493TS		
Operating Frequency (MHz)	2400-2500	4900-5900	
VSWR - Max	2.0:1		
Gain (dBi)	3.0	4.0	
Max Power - Ambient 25°C (W)	2		
Vertical Plane 3 dB Beamwidth	60°		
Horizontal Plane 3 dB Beamwidth	Omnidirectional		

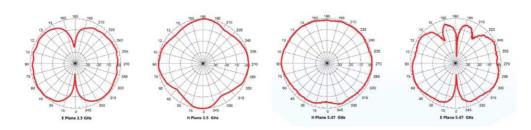
MECHANICAL SPECIFICATION		
Dimensions - mm (inches)	308.2 x 22.0 x 92.0 (12.13 x .87 x 3.62)	
Weight - kg (lbs.)	0.39 (.86)	
Mounting	Ceiling grid/Suspended tile	
Radome Material	ASA	

ENVIRONMENTAL SPECIFICATION		
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Storage Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Material Substance Compliance	RoHS	

#### CONFIGURATION

PART NUMBER	CONNECTOR
S24493TS	Reverse SMA (3x)

## **RADIATION PATTERNS**



#### TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752 +1 (905) 475-6222 Canada: Mexico: +52 (0) 55-1106-0800 Latin/S. America: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 +33 (0) 1-3420-8686 France: +31 (0) 73-6246-999 Netherlands: China: +86 (0) 400-820-6015

### te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use.

TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

©2021 TE Connectivity. All Rights Reserved.

12/21 Original



