



SR249120D SERIES

5dBi Dual-Band 120° Sector Antenna

2400-2500 MHz/4900-5900 MHz

Laird's SR249120D dual-band tri-mode antenna offers the system integrator a perfect solution to indoor and outdoor wide area coverage wall-mount applications. While omni-directional antennas are well suited for installations where the antenna has a 360 degree unobstructed view of the coverage area, wall mounting omni-directional antennas can create a number of system performance issues. Because the antenna radiates equally in all directions, much of the power is radiated directly to the wall surface behind the antenna. This causes elements of the wall to become actual components of the antenna, often causing multi-path nulls within the intended coverage area.

The SR249120D antenna provides a solution for the most common coverage requirements. Its integrated backplane shields the radiating element from the wall, eliminating any problems from wall construction components. The antenna's gain makes it a perfect replacement for typical high-performance omni-directional antennas. The result is solid, consistent, and uniform coverage within the intended coverage area.

FEATURES AND BENEFITS

- Covers 802.11b/a/g modes of operation
- Pattern optimized for wide area directional coverage
- Suitable for indoor/outdoor applications direct to radio mounting
- Wide range of connector type and cable length options available

APPLICATIONS

- Healthcare centers
- Campus
- Warehouses
- Business parks
- Transport concourses
- Retail malls

ELECTRICAL SPECIFICATION

Operating Frequency (MHz)	2400-2500 MHz / 4900-5900 MHz
Number of Ports	1
VSWR - Avg	2.0:1
Gain (dBi)	5
Power Handling (W)	5
Polarization	Vertical Linear
Vertical Plane 3 dB Beamwidth Port 1	65°
Horizontal Plane 3 dB Beamwidth Port 1	120°

MECHANICAL SPECIFICATION

Dimensions – diameter x height – mm (inches)	35 x 55 x 131 (1.38 x 2.16 x 5.16)
Weight – kg (lbs.)	0.9
Cable Type	Ultralink RG-58
Radome Material	High strength PC
Mount Type	Wall/Mast

ENVIRONMENTAL SPECIFICATION

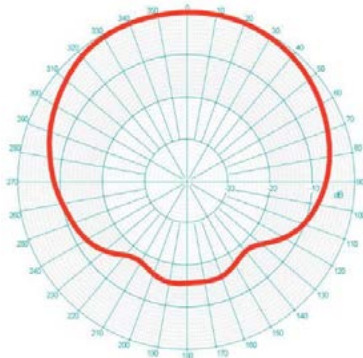
Material Substance Compliance	RoHS Compliant
-------------------------------	----------------

CONFIGURATION

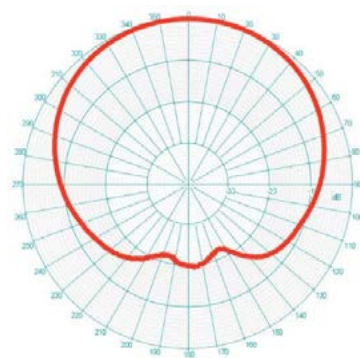
PART NUMBER	CABLE LENGTH (INCHES)	CONNECTOR
SR249120D12NF	12	Type N-Female
SR249120D12NM	12	Type N-Male
SR249120D12RSM	12	Reverse Polarity SMA Male
SR249120D36NM	36	Type N-Male
SR249120D36RNF	36	Type N-Female
SR249120D36RSM	36	Reverse Polarity SMA Male
SR249120D36RTN	36	Reverse TNC Male

RADIATION PATTERNS

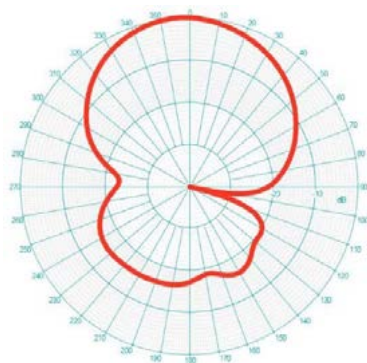
2.4 GHz - Azimuth



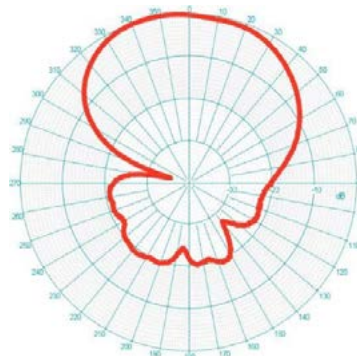
5 GHz - Azimuth



2.4 GHz - Elevation



5 GHz - Elevation



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
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
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. 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 Connectivity 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 Connectivity 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 Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original