



S8658WPX **Right/Left Circular Polarity Wide-band RFID** **Antenna 865-960 MHz**

The Laird S8658WPx series antennas are circularly-polarized panel antennas that provide reception and transmission of signals in the 865-960 MHz frequency band. Laird's industry renowned design methodology achieves maximum efficiency and performance across the entire frequency band.

Both VSWR and axial ratios are both excellent and allow the user to achieve the maximum performance for an antenna of this type. The antenna is housed in a heavy duty radome enclosure that can be directly wall mounted. An optional articulating mount allows either wall or mast mounting. The antenna is offered with an integrated coax pigtail and a variety of connector types are available.

FEATURES AND BENEFITS

- Low profile
- Extremely low VSWR and axial ratio
- Wide-band
- Weather and UV-resistant radome
- Wide-range of connector and cable options
- Left-hand and right-hand CP versions

ELECTRICAL SPECIFICATION	
Operating Frequency (MHz)	865-960
VSWR - Max	1.4:1
Gain (dBic)	8.5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	3
3 dB Beamwidth - Azimuth	65°
Front-to-Back Ratio (dB)	20
Axial Ratio (dB)	1

MECHANICAL SPECIFICATION

Dimensions – cm (in.)	25.908 (10.2) x 25.908 (10.2) x 3.048 (1.32)
Weight – kg (lbs.)	1.13 (2.5)
Mount style	Threaded stud
Radome Material	High-strength PC
Lightning Protection	DC grounded

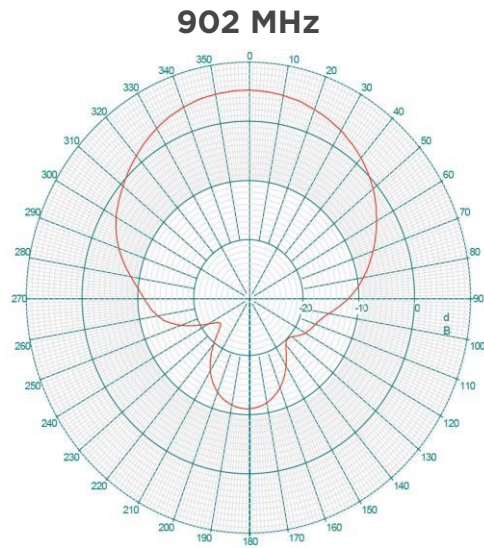
ENVIRONMENTAL SPECIFICATION

Operating Temperature – °C (°F)	-40 (-40) to +85 (185)
Ingress Protection Rating	IP 54
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CABLE TYPE	CABLE LENGTH CM (IN)	CONNECTOR	POLARIZATION
S8658WPL-12NF	Coax Pigtail	30 (12)	N Female	Left circular
S8658WPL-12RTN	Coax Pigtail	30 (12)	TNC Male Reverse Polarity	Left circular
S8658WPL-12SMM	Coax Pigtail	30 (12)	SMA Male	Left circular
S8658WPL-240RTN	Coax Pigtail	610 (240)	TNC Male Reverse Polarity	Left circular
S8658WPL-244RTNM	Coax Pigtail	244 (96)	TNC Male Reverse Polarity	Left circular
S8658WPL-30RSMM	Coax Pigtail	30 (12)	SMA Male Reverse Polarity	Left circular
S8658WPL-72RTN	Coax Pigtail	183 (72)	TNC Male Reverse Polarity	Left circular
S8658WPL-91RTNM	Coax Pigtail	91 (36)	TNC Male Reverse Polarity	Left circular
S8658WPL-S12NF	Coax Pigtail	30 (12)	N Female	Left circular
S8658WPL-T-01	Coax Pigtail	183 (72)	TNC Male Reverse Polarity	Left circular
S8658WPR-12NF	Coax Pigtail	30 (12)	N Female	Right circular
S8658WPR-12RTN	Coax Pigtail	30 (12)	TNC Male Reverse Polarity	Right circular
S8658WPR-12SMM	Coax Pigtail	30 (12)	SMA Male	Right circular
S8658WPR-240RTN	Coax Pigtail	610 (240)	TNC Male Reverse Polarity	Right circular
S8658WPR-244RTNM	Coax Pigtail	244 (96)	TNC Male Reverse Polarity	Right circular
S8658WPR-30RSMM	Coax Pigtail	30 (12)	SMA Male Reverse Polarity	Right circular
S8658WPR-36SMM	Coax Pigtail	91 (36)	SMA Male	Right circular
S8658WPR-72RTN	Coax Pigtail	183 (72)	TNC Male Reverse Polarity	Right circular
S8658WPR-91RTNM	Coax Pigtail	231 (91)	TNC Male Reverse Polarity	Right circular
S8658WPR-S12NF	Coax Pigtail	30 (12)	N Female	Right circular
S8658WPR-T-01	Coax Pigtail	30 (12)	MMCX	Right circular
S8658WPR-T-03	Coax Pigtail	20 (8)	MMCX	Right circular

RADIATION PATTERNS



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 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.

©2022 TE Connectivity. All Rights Reserved.

03/22 Original

