

SPSPRDA2-P

Product Preview

UHF Planar Antenna

The SPSPRDA2-P is an indoor, planar antenna optimized for use with Smart Passive Sensors™. This planar style antenna comes with a RP-SMA jack connector, enabling fast installation times. This antenna is designed to be placed on metal surfaces, making it ideal for applications such as datacenter management and industrial predictive maintenance where other antenna topologies may not be ideal.

This planar antenna functions in both the ETSI (865–868MHz) and FCC (902–928MHz) defined UHF bands. The free-space radiation pattern when mounted on a metal plane will be an off-axis toroid, some placement optimization may be required based on application environment.

Features

- Elliptical Polarization
- Compact Form Factor
- RP-SMA Jack Connector
- ABS Plastic with Foam Mounting Tape

Applications

- Data Centers
- Industrial Predictive Maintenance
- Facilities Management
- Cold-chain Logistics



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PackageName
SUFFIX
CASE TBD

ORDERING INFORMATION

Device	Package	Shipping
SPSPRDA2-P	Box	Box of 8

Table 1. STANDARD OPERATING CONDITIONS

Parameter	Rating	Unit
Operating Temperature Range	–40 to +85	°C

Table 2. ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Min	Typ	Max	Unit
Frequency Range	865		928	MHz
Impedance		50		Ω
Peak Gain	4		6	dBi
SWR			2.0	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

This document contains information on a product under development. ON Semiconductor reserves the right to change or discontinue this product without notice.

SPSPRDA2-P

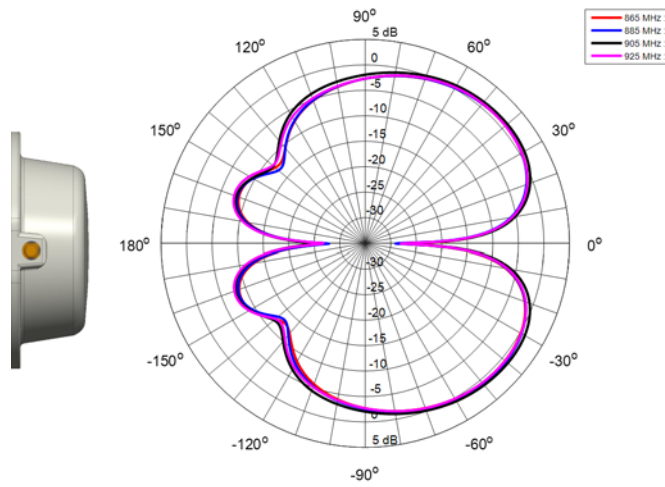


Figure 1. Azimuth Cut, held at $\theta = 90^\circ$: E_{TOTAL} Component

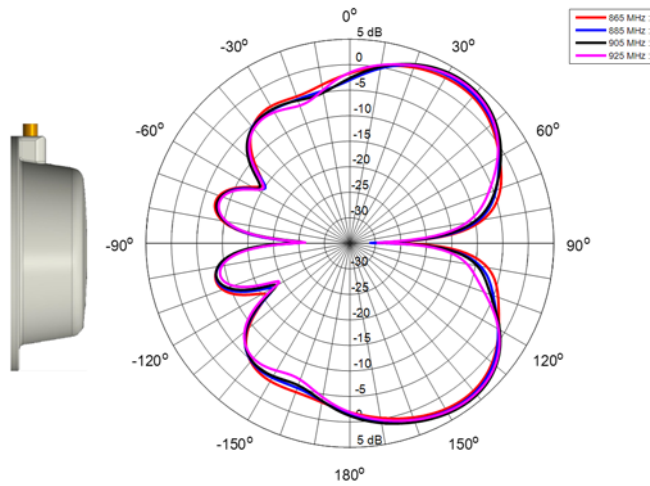


Figure 2. Elevation Cut, back to front: E_{TOTAL} Component

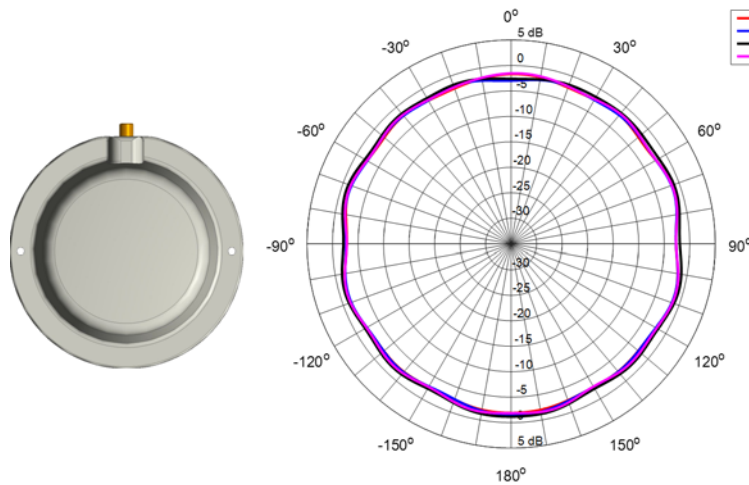



Figure 3. Elevation Cut, side to side: E_{TOTAL} Component

SPSPRDA2-P

PACKAGE DIMENSIONS

TBD
TBD SUFFIX
CASE TBD
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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.