

SPS1DEVA1-W

Product Preview UHF Dipole Antenna

The SPSDEVA1-W is an indoor, dipole antenna optimized for use with Smart Passive Sensors™ inside server cabinets. This whip style antenna comes with a 2 meter cable and male SMA cable, enabling fast installation times. A metal mounting plate spaces the antenna off of the mounting surface, allowing the dipole to function even when mounted to metal.

This dipole antenna functions in both the ETSI (865–868MHz) and FCC (902–928MHz) defined UHF bands. The free-space radiation pattern will be toroidal but the shape will be affected when placed in metal-heavy environments, so some placement optimization may be required.

Features

- Linearly Polarized
- Compact Form Factor
- Two-meter RG-174 cable
- SMA Male Connector
- ABS Plastic with Metal Mounting Bracket

Applications

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



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PackageName
SUFFIX
CASE TBD

ORDERING INFORMATION

Device	Package	Shipping
SPS1DEVA1-W	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		1.8		dBi
SWR			1.8	

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.

SPS1DEVA1-W

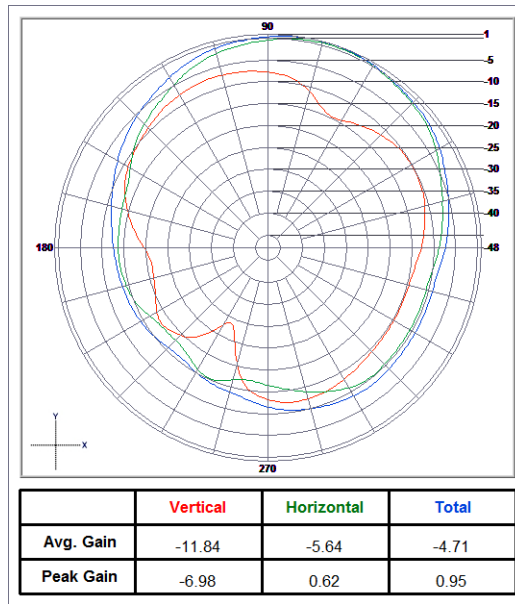


Figure 1. Azimuthal Radiation Pattern for 868 MHz

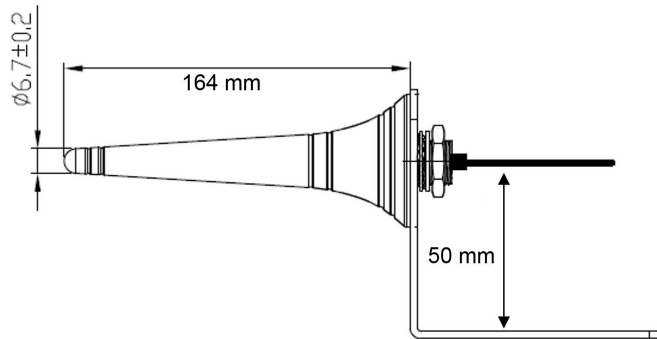



Figure 2. Package Dimensions

SPS1DEVA1-W

PACKAGE DIMENSIONS

TBD
TBD SUFFIX
CASE TBD
ISSUE 0

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