

Data Sheet

ANT901 – Internal FLARM Antenna EU/US

Published 13 December 2024

Description

The ANT901 is an antenna for internal applications. It offers a low profile and wide bandwidth to cover both European and North American SDR/ISM bands used by FLARM devices. It is well-suited for applications in the vicinity of cylindrical batteries. Manufactured from stamped metal, it offers low cost and low production tolerances. To avoid vibrations of the systems, the antenna contains a mounting hole for attachment to a PCB with a plastic spacer.

Specifications

Mechanical

	Typical Dimension	
Length	42 mm	+- 0.2 mm
Width	45 mm	+- 0.2 mm
Height	29 mm	+- 0.2 mm
Spacer (Nylon)	25 mm	+-0.4 mm

RF

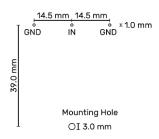
	Typical Dimension	
Frequency Range	868 MHz - 930 MHz	+- 2 MHz
Impedance	50 Ohms	
Return Loss	8 dB min	
Maximum Gain	1.8 dBi	+- 0.2 dBi
Maximum Horizontal Gain	0.3 dBi	+- 0.5 dBi
Polarization	Vertical	

Material

Brass C27400 / Electroless Nickel Plating

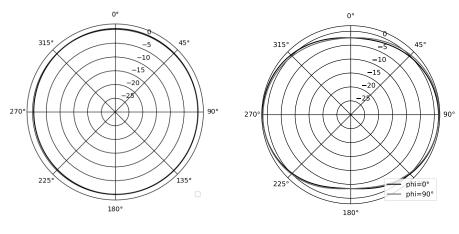


Footprint



Plots

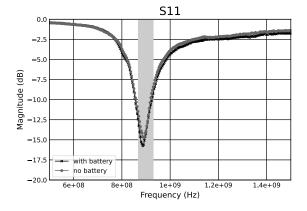
Gain



Horizontal Plane

Vertical Planes

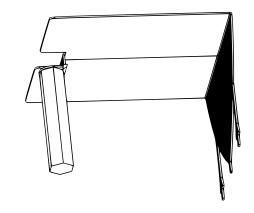
Return Loss

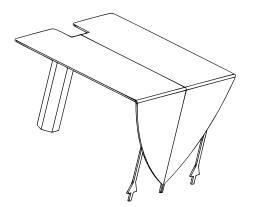


gray bar marks the frequency band of operation



Illustrations





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