Advantenna-L11™

Near field RFID UHF antenna

Benefits:

- Readings confined to the vicinity of the antenna when used with near-field tags
- Very thin form factor (13 mm with flange connector)
- Good performance
- Cost effective

Applications:

- Point of sales
- Smart panels
- Smart tables
- Smart surfaces in general

Product overview

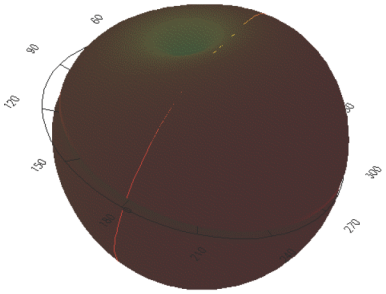
Advantenna-L11 is a compact near-field RFID UHF Antenna, with a very thin form factor, and strong and even magnetic field distribution within its detection zone. When used with inductive near-field tags the reading area can be confined to the vicinity of the antenna.

This thin form factor and the wide coverage area in the near-field zone of the antenna make this antenna ideal for many RFID applications such as points of sales, desktop applications, smart tables or other surfaces.

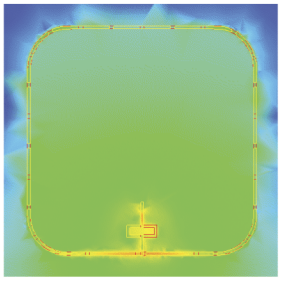
Specifications

Operating Frequency	813 - 1000 MHz (Broadband for different regions)
Operating Detection distance	Up to 1 m (Using far-field tags)
Radiation pattern	Wide beam in both directions
Max Far-Field Gain	2.0 dBi
Beam width	100° / 100°
Input Impedance	50 Ω (May be affected by the presence of metal at distances closer than 15 cm)
Connector	SMA Flange or flange right angle
Temperature range	-20°C to +55°C
Size excluding connector	137 mm x 137 mm x 0.5 mm 5.4 inches x 5.4 inches x 0.02 inches
Size with flange connector	137 mm x 137 mm x 13 mm 5.4 inches x 5.4 inches x 0.5 inches
Antenna weight	25 g

Radiation pattern



Magnetic field distribution



View from the side with connector

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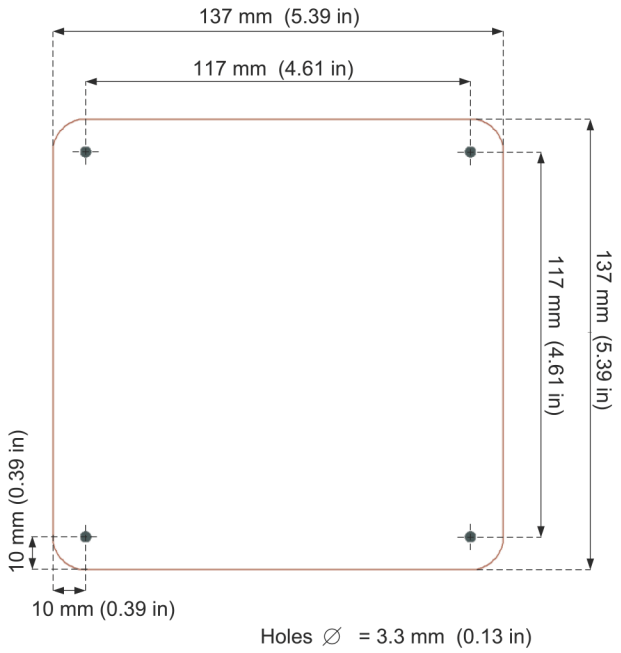
Mechanical specifications



Product codes for ordering

ADAN-L11	FF	-	CS	CT	-	mmm	
							FF = frequency band
	DB						Dual band
							Connector shape
			FL				Flange straight
			FR				Flange right angle
							Connector type
				SMA			SMA connector
							Model
						100	Model number

Example:

- **ADAN-L11DB-FLSMA-100:**
  - Advantenna-**p11**
  - Dual frequency band
  - **Flange straight** connector
  - **SMA** connector
  - Model **100**