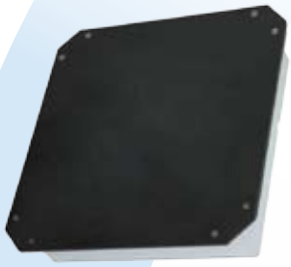
Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

S902ANFD S902ANFC
RFID UHF Near Field Antennas



UHF NEAR FIELD ANTENNAS OFFER IMPROVED PERFORMANCE

The RFID UHF near field antennas from Laird Technologies offer improved performance over traditional UHF near field antennas. Designed using proprietary software optimization tools, these antennas provide uniform field strength across their entire aperture. There are no hot-spots or dead-spots ensuring reliable tag reading no matter where the tag is placed on the antenna surface. The design also is much less susceptible to detuning in the proximity of metallic objects, or when a large number of tags are placed on the antenna for reading.

Two versions of the product are available. One version is a dual port antenna that utilizes polarization diversity to provide operation in a dual mono-static mode. This antenna is ideal for use with multi-port readers.

The other version is a single port antenna with circular polarization that can be used with either single or multi-port readers.

Each version is available in a choice of two frequency ranges, 865-870 MHz, or 902-928 MHz.

FEATURES RoHS

- Circular or dual polarization versions
- Choice of 856-870 MHz or 902-928 MHz
- Choice of coax feed length and connector type
- Uniform field strength across entire antenna surface
- Immune to detuning in the proximity of metal

MARKETS

- Retail point of sale
- Kiosks
- Pharmacies
- Hospitals
- Incoming inspection
- Tag writing
- Industrial plants

Specifications	S902ANF
Frequency:	902-928MHz (US) / 865-868MHz (EU)
Gain:	6 dBi (max)
Polarization:	S902ANFD Dual Slant 45° S902ANFC Circular
VSWR:	S902ANFD <1.5:1 S902ANFC <1.7:1
Impedance:	50 Ω
Port to port isolation:	15 dB for dual pol
RF Connector:	RTNC or SMA
Power Rating:	1 W (average) 10 W(peak)
Cable length:	6′
Dimensions:	10″ x 10″ x 2.5″
Weight:	3.6 lb
Operational Temperature:	-20°C to +60°C

global solutions: local support™

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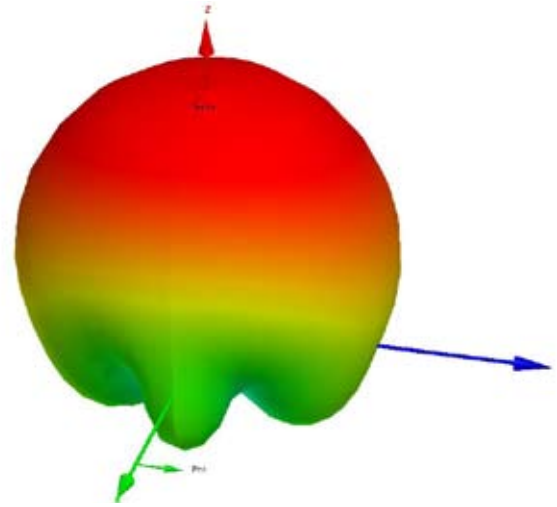
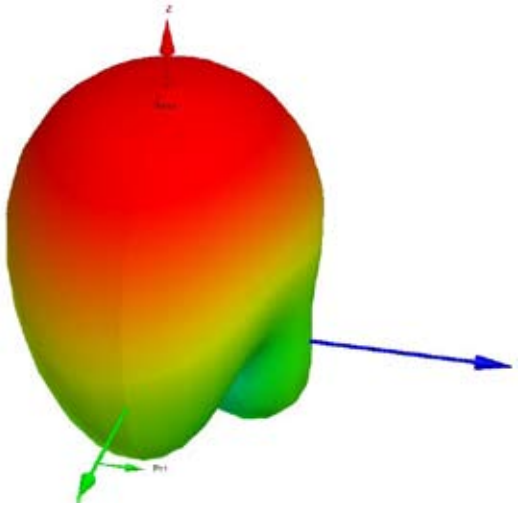
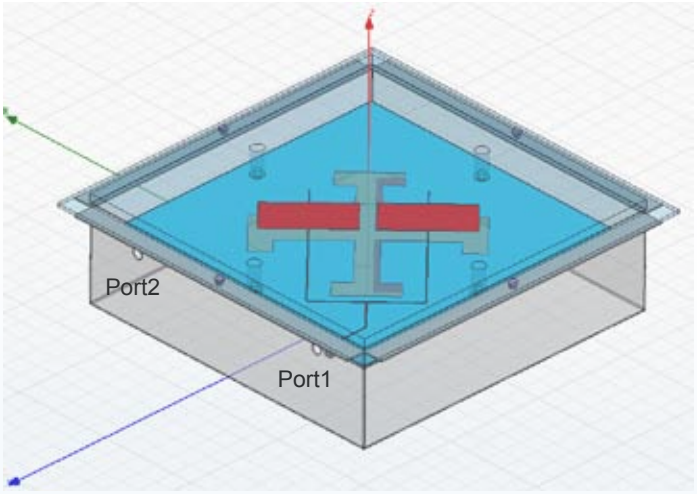
Antenna Patterns

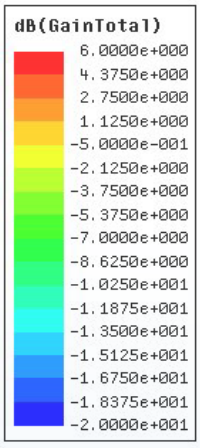


Port 1



Port 2





SYSTEM ORDERING INFOMATION

S902ANFD	RFID check-out antenna dual slant 45 °
S902ANFC	RFID check-out antenna circular polarity

IAS-RFID-S902ANF-0409