

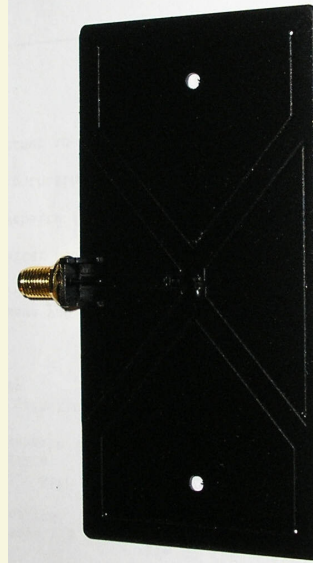
DATASHEET

Antenna model UL-9001-333

The UL-9001-333 RFID/Low Power application antenna and RF coupler was designed for use in close proximity of or near RFID tags, particularly when the tag is placed on a large body, capable of detuning commonly used RFID reader antennas, or for use as an RF Coupler for Cellular and ISM product test fixtures, or to devise a Passive Repeater when used in conjunction with other **antennas.us** products.

Exposed metal surfaces within the antenna are grounded to the RF connector's shield, as a precaution, on the rare occasion when there are combustible gases present. Only the The RF connector's center conductor, and its associated 2.5 cm (1") track of transmission line are not grounded. Such node is isolated to 50 Volts DC at ground level (altitude = 0 m), and within the specified temperature range.

Normal uses of the UL-9001-333 include: [1] RFID reader antenna, operating within US 900 MHz ISM band (902-928 MHz), or within EU unlicensed band 868 MHz, [2] Cellular Phone test fixture RF coupler (operates best at cellular 800 and 900 MHz bands), [3] embedded or exterior antenna for 800/900 MHz portable, and small devices, [4] inconspicuous receiving antenna from 700 MHz to 1 GHz, [5] low power 800/900 MHz home projects



Frequency range: 850-950 MHz

Coverage:

Omni-directional
moderate azimuthal ripple (3 dB)

Polarization:

Linear

Gain:

0 dBil

Nominal Impedance:

50 ohm (RF), Open Circuit (DC),
30VDC isolation, radiating element grounded
1 Watt CW

Input Power:

2.0

VSWR:

SMA, Female

Connector:

Dimensions:

5 cm (2") x 10 cm (4")
connector protrudes 1.4 cm or 0.55"
SMA connector, 6.5 mm (0.25") hole

Mounting:

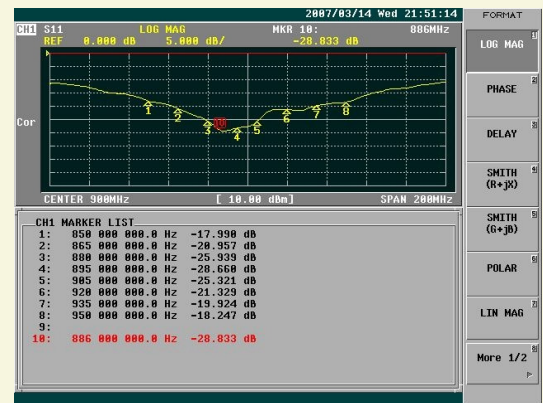
76.2 mm (3.00") center to center

Operating Temperatures:

-40°C to +85°C

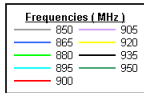
Weight:

10 g / 0.4 oz



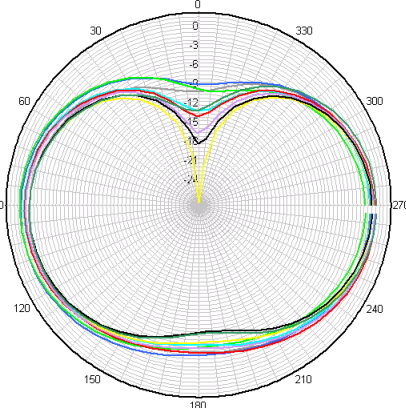
Not intended for "Intrinsically safe" applications

Specifications and prices are subject to change without notice



| FREQ (MHz) | Gain (dB) |
|------------|-----------|
| 850.00 | -0.16 |
| 865.00 | 0.92 |
| 880.00 | 1.07 |
| 895.00 | 0.38 |
| 900.00 | 0.66 |
| 905.00 | 0.49 |
| 920.00 | 0.16 |
| 935.00 | 0.15 |
| 950.00 | 0.83 |

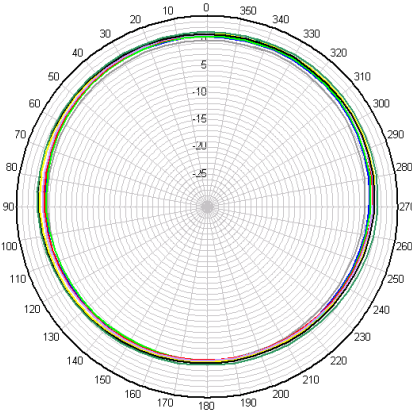
UL-9001-334 RF ID READER
ELEVATION Plots
Unit # 03



ANTENNA ORIENTATION
Top Points to 0° Mark
Base Points to 180° Mark

azread3ane 03/16/07

UL-9001-334 -RF ID Reader
Azimuthal Plots
Unit# 03



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