

BLUEBOX Circular Antenna UHF Long Range

iDTRONIC's Circular Long Range Antenna UHF is a high performance device which enables the UHF Long Range reading of up to 10 metres in both EU and US RFID bands (depending on type of tag).

Through his circular polarized setting, the user will be able to read out the tags in multiple 3D orientations (Subject to local regulations).

Applications:

- Warehouse
- Supply Chain
- Access Control

General features:

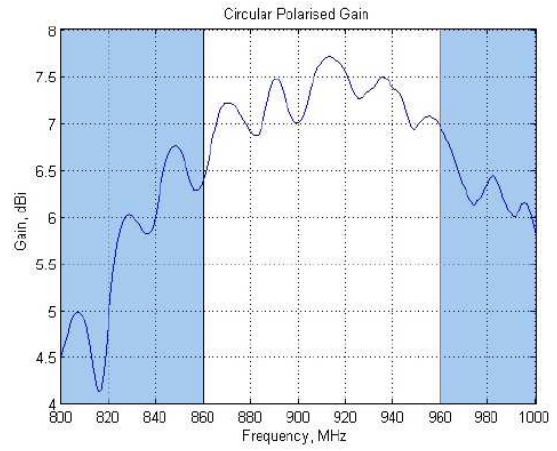
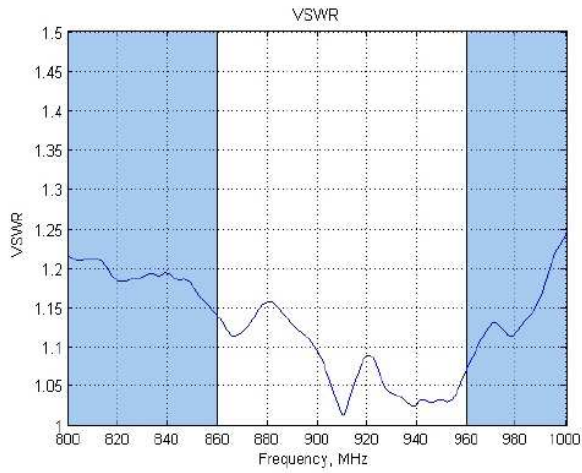
- Stable performance
- Circular polarized
- Extremely low VSWR return loss.
- Low axial ratio for optimum transmitted power
- Easily integrate with UHF Long Range Reader
- Able to read out multiple disorientated tags
- Operation RF Frequency range of 865 - 956MHz

Product specification:

Description:	Plastic + Aluminum with chemical conversion coating (Based)
Frequency:	860 – 960MHz
Dimensions:	245 x 235 x 40mm
RF Rating:	6W (max)
Weight approx.:	500g
Housing:	IP65
Temperature:	- 20°C ... +70°C
Interface:	1 x SMA connector (N-Type Female)
Cable length:	3m
Impedance:	50Ohm
Operating distance:	Up to 10m at 1Watt (Reader and Tag dependent)
Gain:	7 dBic (max) 6.5 dBic (min)
Polarization:	Circular
VSWR:	1,2 : 1 (typ) 1,3 : 1 (max)
Axial Ratio:	< 1dB
Horizontal beamwidth 3 dB:	67°(+/-5°)
Vertical beamwidth 3 dB:	69°(+/-5°)
Front to back ratio:	20dB (+/-3dB)
Order number:	R-LR-UHF-A1



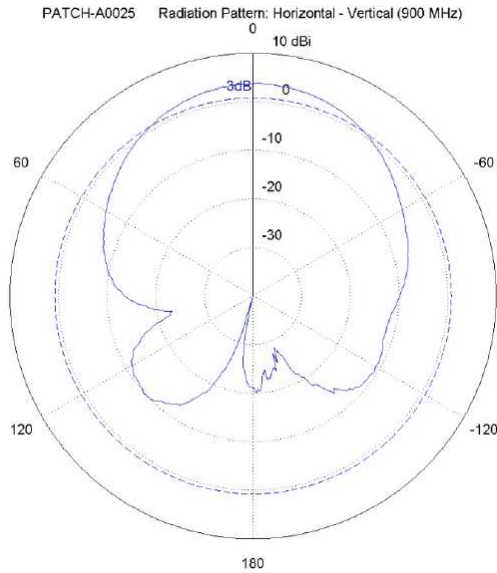
VSWR and Gain Pattern:



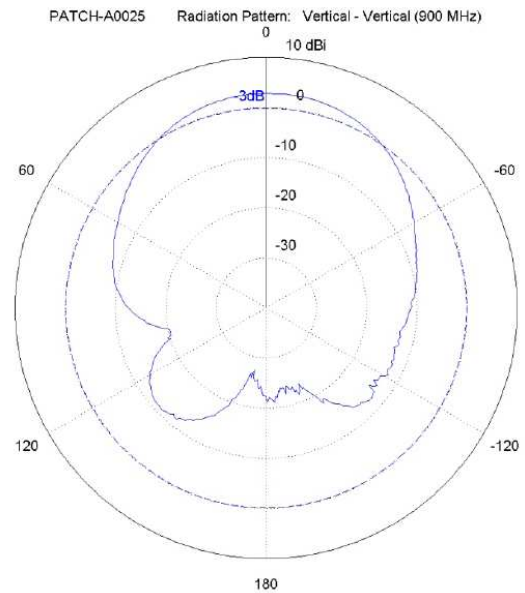
VSWR

Gain

Radiation Pattern:



Horizontal



Vertical