Fixed RFID Antennas - UHF RFID Application Single Type Dual Circular Polarization, 908.5 MHz~914 MHz	FSDC-07

Features

- Gain: 4.5 dBi Min
- VSWR: 1.3:1 Max
- Isolation: -30dB Typical
- 3dB Beamwidth: 70°
- Polarization: LHCP and RHCP
- Dimensions: 200×200×35mm
- Connector Type: SMA Female×2

Item Pictures

Description

EMW FSDC-07 RFID antenna is a single type dual circularly polarized fixed reader antenna for Korea RFID applications. High Gain (≥ 4.5 dBi) and broad beamwidth (70° Typical) increases read range while low VSWR (≤1.3:1) minimizes wasted power in reader systems. The antenna's light weight (0.5Kg) and small size (200×200×35 mm) are ideal for Korea RFID applications.

Electrical Characteristics

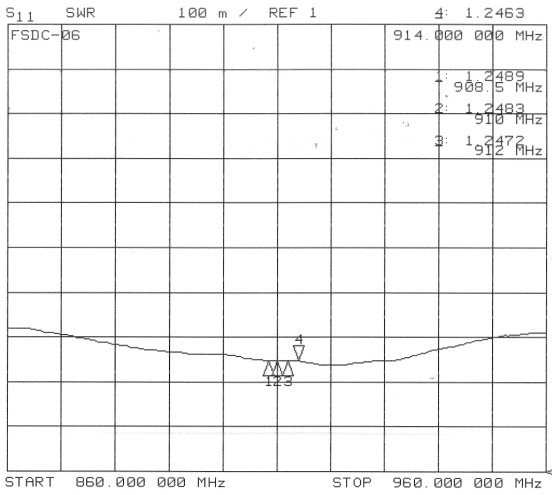
Frequency Range:	908.5 MHz ~ 914 MHz
Polarization:	LHCP and RHCP
Nominal Impedance:	50Ω
Gain:	≥4.5 dBi
VSWR:	≤1.3:1
Axial Ratio:	< 3dB
Isolation:	-30dB Typical
3dB Beamwidth:	70° Typical

Physical Characteristics

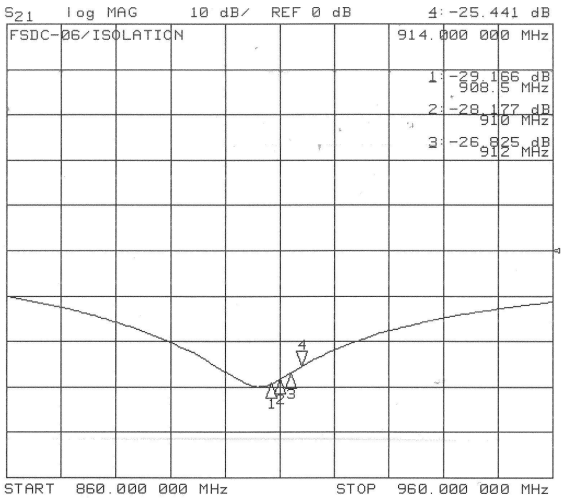
Dimensions(mm):	200×200×35
Weight(Kg):	0.5
Connector Type:	SMA Femalex2

Typical Performance Curves

VSWR

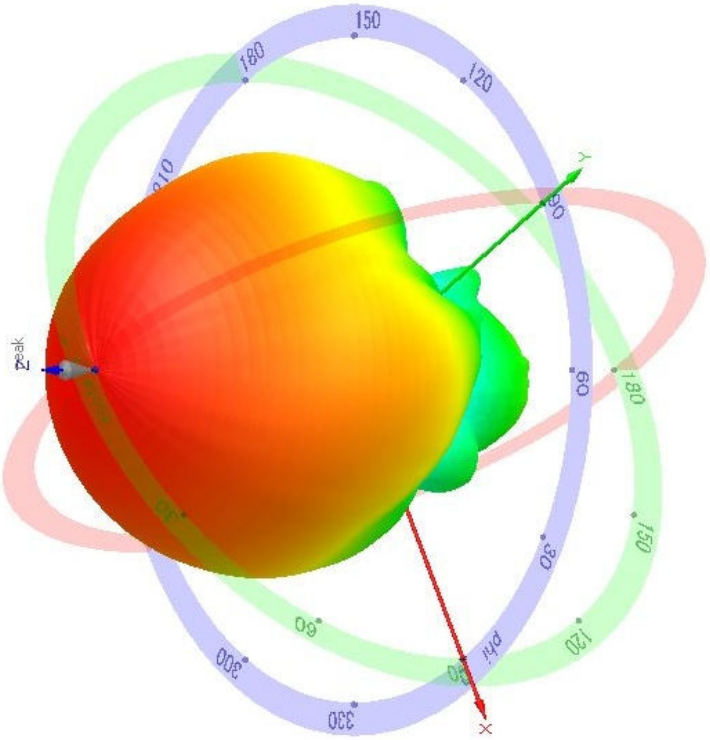


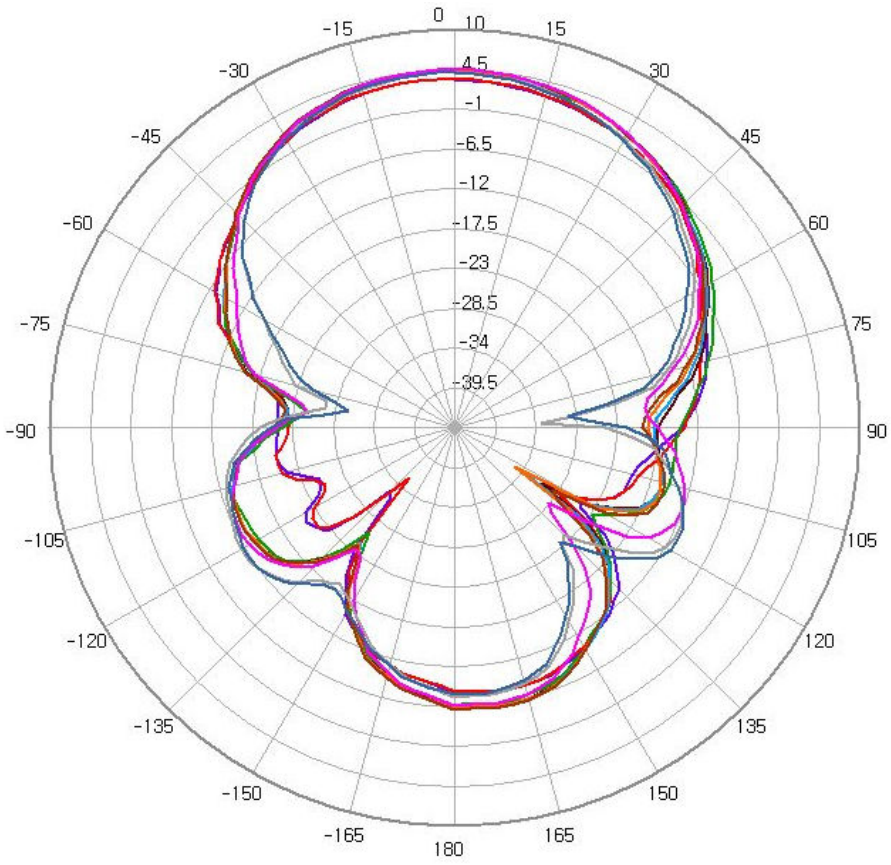
ISOLATION



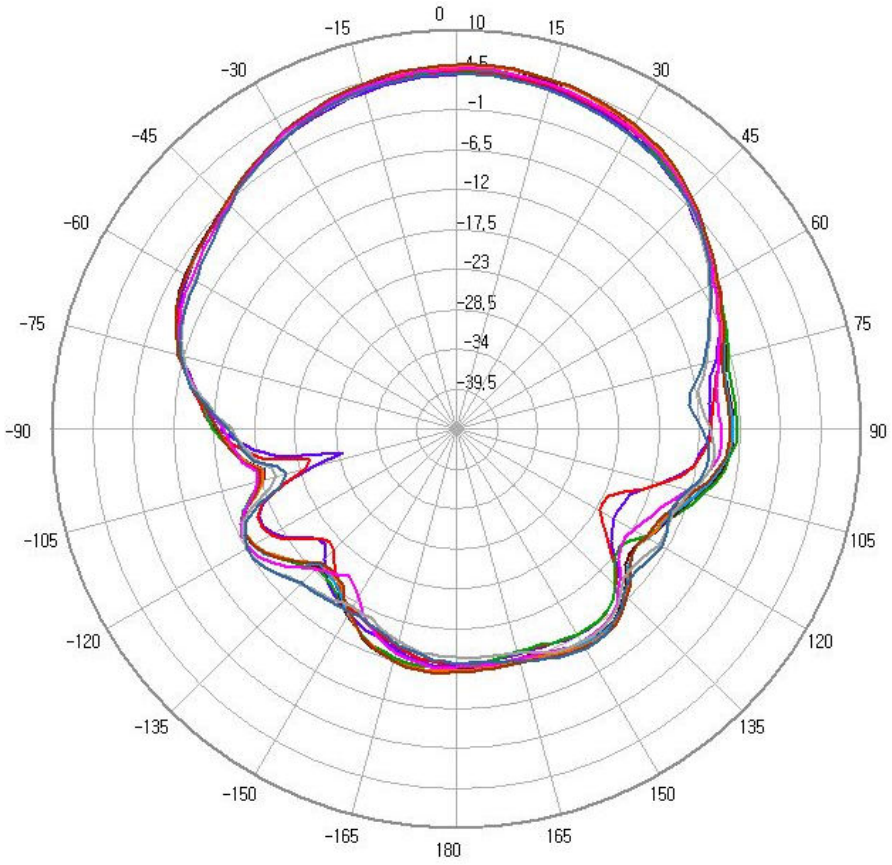
Radiation Pattern

3D Pattern



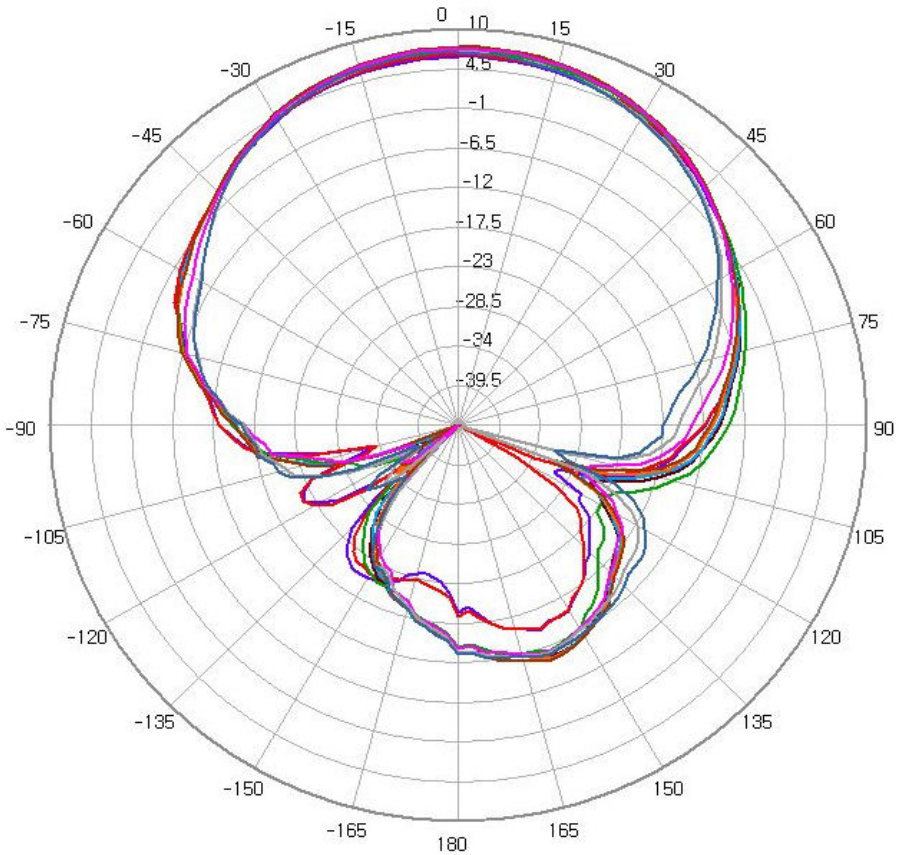


Horizontal (Port-1 & Port-2)



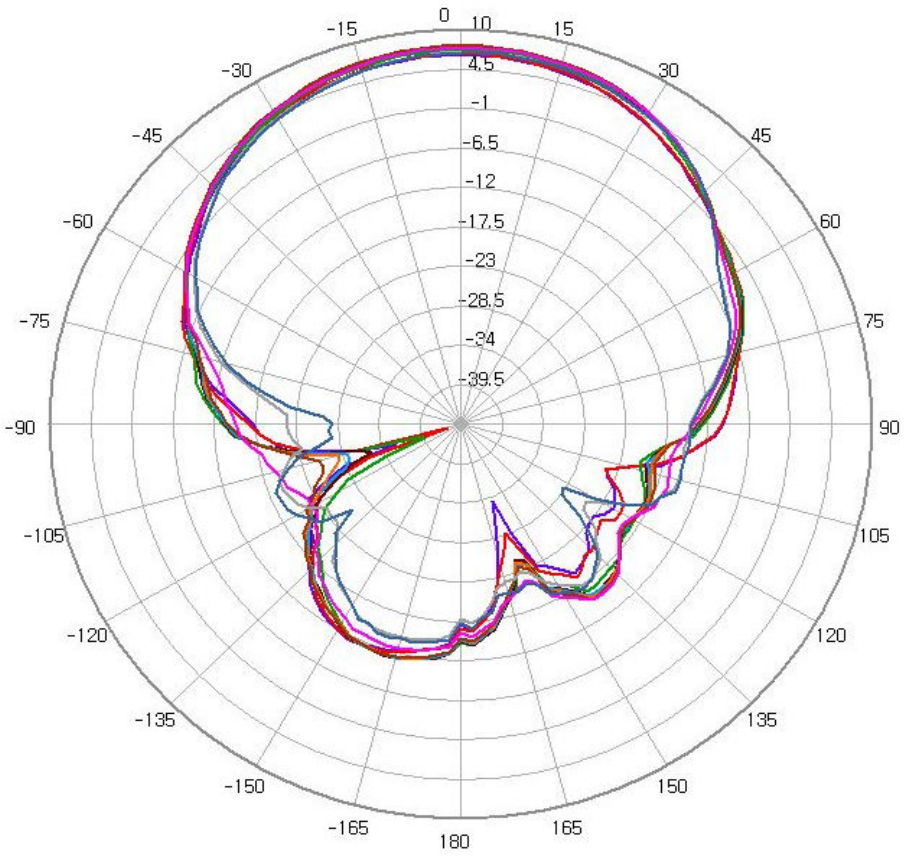
Theta [deg]

Vertical (Port-1 & Port-2)



Theta [deg]

RHCP (Port-1)


0
10
15
-15
30
-30
4.5
45
-45
-1
-6.5
60
-60
-12
-17.5
75
-75
-23
-28.5
90
-90
-34
-39.5
105
-105
120
-120
135
-135
150
-150
165
-165
180
Theta [deg]

LHCP (Port-2)