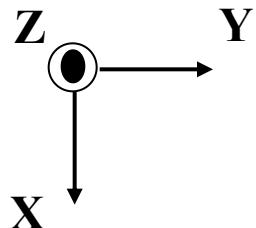


PCB Antenna Simulation

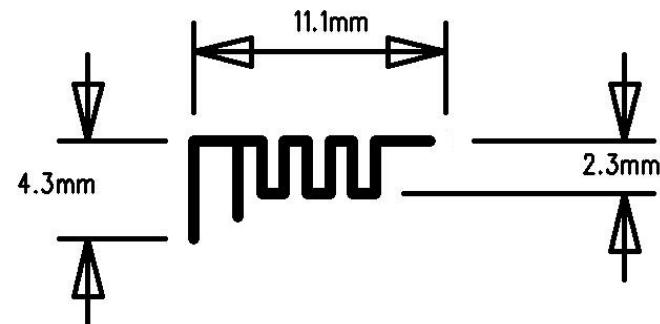
Manufacturer: Shenzhen BELON SOLUTIONS Co. Ltd.

Address: Langshan Road, North District, High-tech Park, Nanshan District, Shenzhen Room 1206-07,
Scientific Research Building, Tsinghua Information Harbor, China

PCB Antenna pattern



ITEM	SPE.
MAX.GAIN	1.03dBi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50Ω
Antenna Length	2.92CM

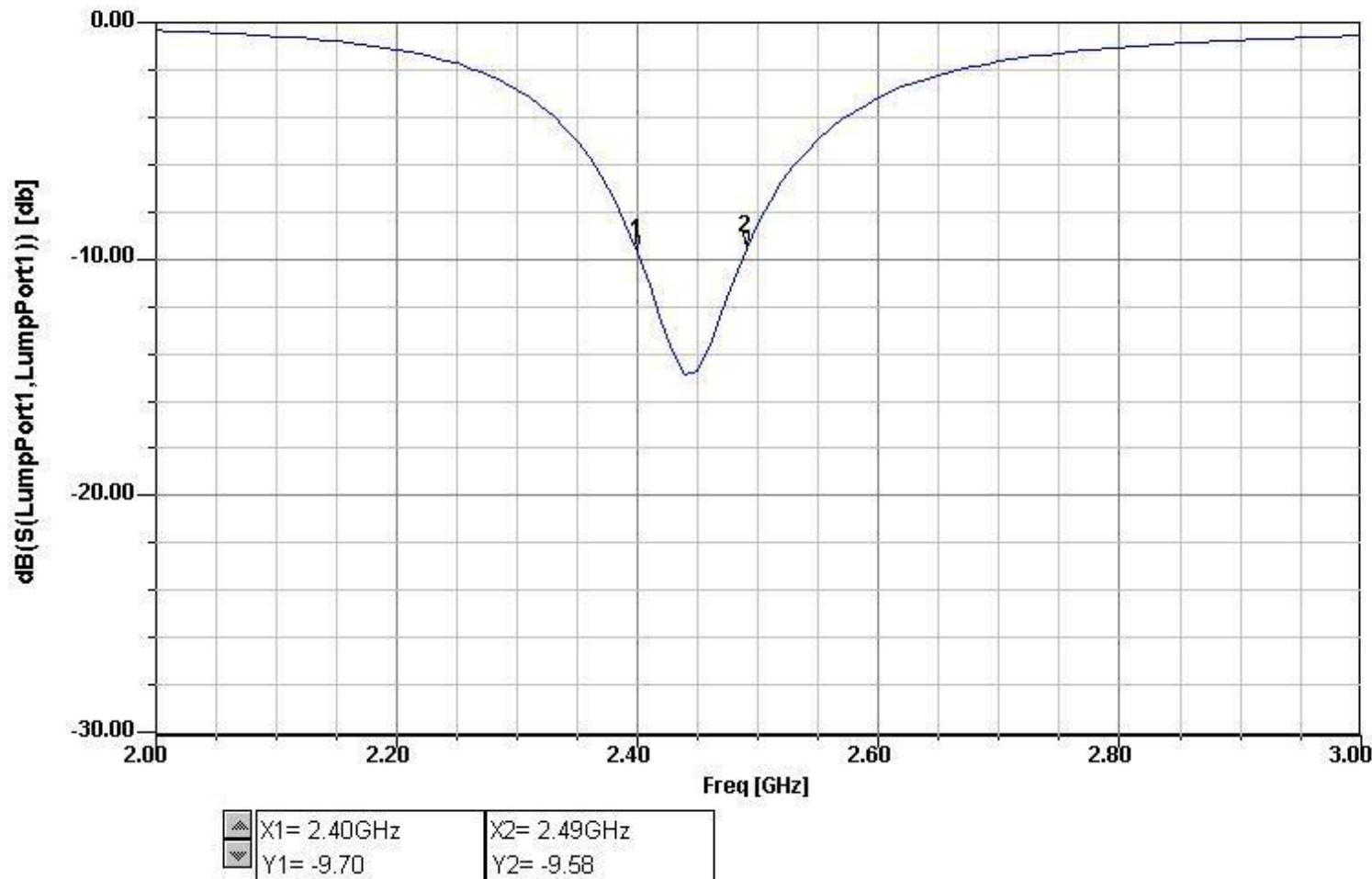


PCB Antenna Simulation

(S11)

Ansoft Corporation
XY Plot 1
HFSSDesign1

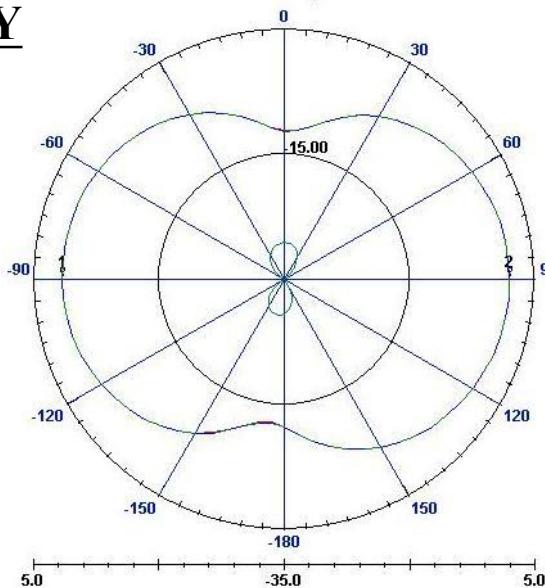
BW(RL<10dB): 90 MHz



PCB Antenna Simulation

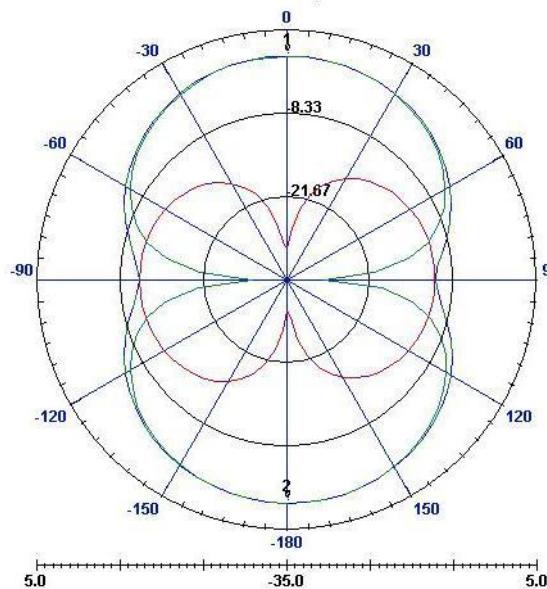
(Radiation)

XY



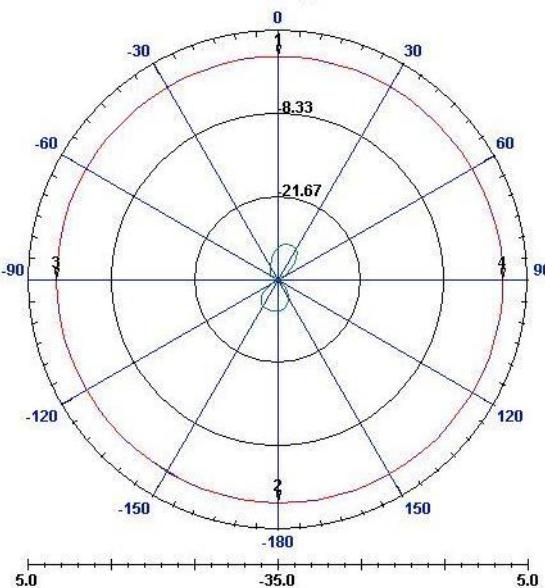
M1= 0.458
P1= 270.000
270.000deg
M2= 0.944
P2= 90.000
90.000deg

XZ



M1= 0.753
P1= 0.000
0.000deg
M2= 0.655
P2= 180.000
180.000deg

YZ



M1= 0.753
P1= 360.000
360.000deg
M2= 0.655
P2= 180.000
180.000deg
M3= 0.458
P3= 270.000
270.000deg
M4= 0.944
P4= 90.000
90.000deg

Efficiency: 76%

MAX.Gain: 1.03dBi

Avg. Gain: -1.2 dBi Min. Gain: -30.7 dBi