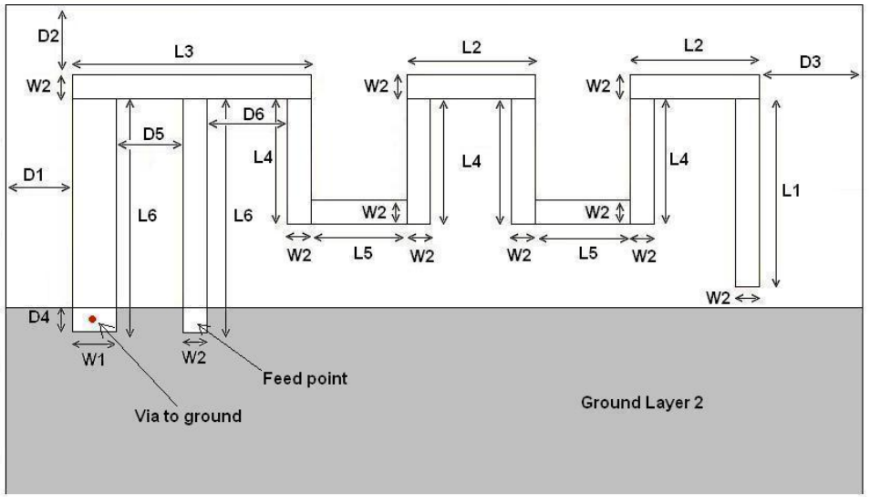
Antenna data information

- The PCB antenna is a meandered Inverted F Antenna (IFA).
- The IFA was designed to match an impedance of 50 ohm at 2.45 GHz. Thus no additional matching components are necessary.
- The maximum antenna gain is -5 dBi

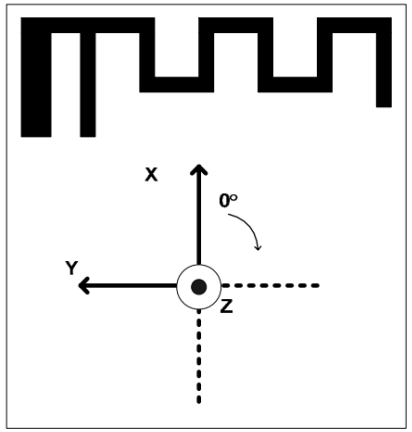
- Layout and implementation



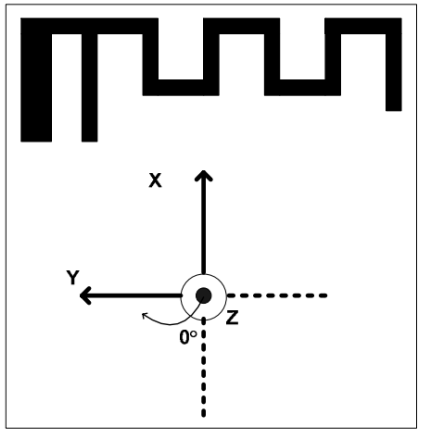
L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Antenna data information

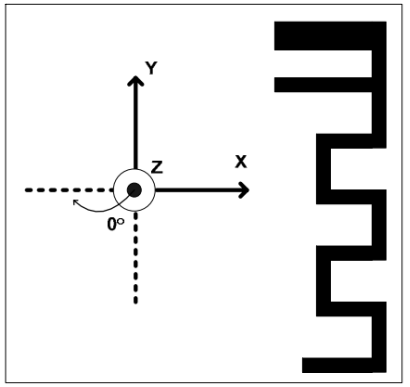
- The radiation pattern for the antenna implemented reference design has been measured in an anechoic chamber.
  Measurements were performed with 0 dBm output power.



XY plane

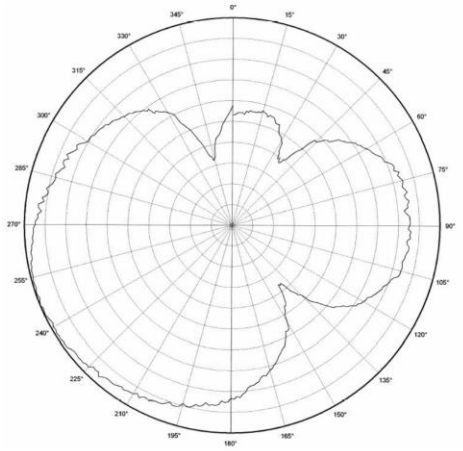


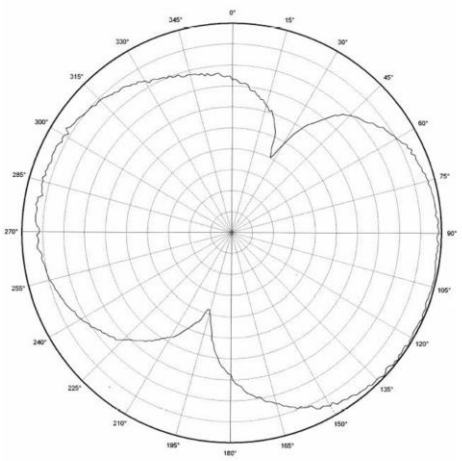
YZ plane



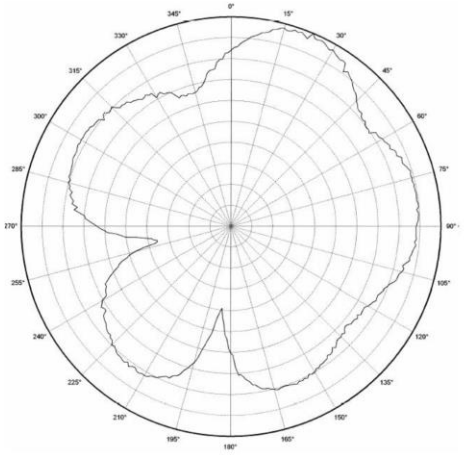
XZ plane

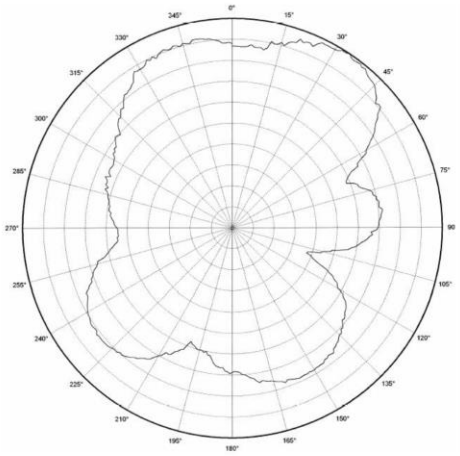
Antenna data information



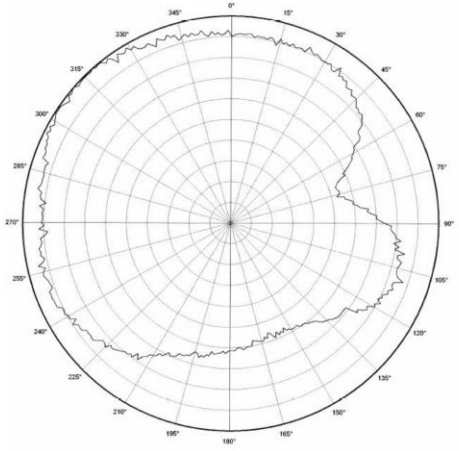


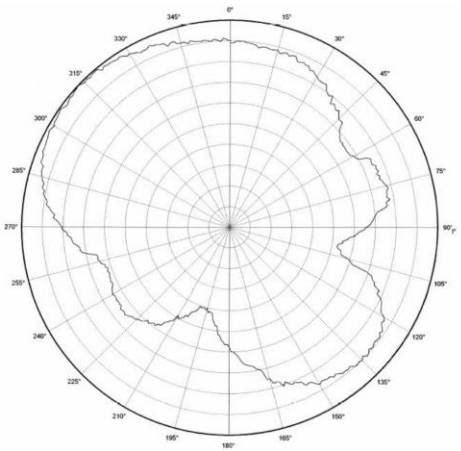
Vertical and horizontal polarization XY plane
CF 2,450.00 MHz
5 dB/div
Ref Level: -5.5 dBm
Antenna gain: -5.5 dBi





Vertical and horizontal polarization XZ plane
CF 2,450.00 MHz
5 dB/div
Ref Level: -5.2 dBm
Antenna gain: -5.2 dBi





Vertical and horizontal polarization XY plane
CF 2,450.00 MHz
5 dB/div
Ref Level: -5.0 dBm
Antenna gain: -5.0 dBi

Antenna data information