

Technical Data Sheet: Embedded Flex Antenna

Size: 2 x 20x8.9mm

Omni-directional Radiation

Working Frequency 2402MHz to 2480MHz

Bandwidth 340 MHz(Typ.)

Impedance 50 Ω (Typ.)

Maximum Power 0.5 W

Return Loss $\sim$ 7.36 dB Max.

Polarization Linear

Azimuth Beamwidth Omni-directional

Peak Gain 0.27 dBi (Typ.)

Operating Temperature – 40 $\sim$ +85 $^{\circ}$ C

MECHANICAL DRAWING

Flex thickness: 0.25mm

Cu thickness: 18u

ELECTRICAL PERFORMANCES

Antenna Radiation Power:

Orientation	Vertical Polarization			Horizontal Polarization		
	Frequency (MHz)	Azimuth ($^{\circ}$ deg)	Measured Power (dBm)	Frequency (MHz)	Azimuth ($^{\circ}$ deg)	Measured Power (dBm)
XY	2402	140	-17.48	2402	200	0.27
YZ	2402	220	-6.18	2402	190	-4.03
ZX	2402	260	-1.98	2402	140	-3.04
XY	2440	20	-17.89	2440	200	-0.16
YZ	2440	340	-4.86	2440	160	-2.53
ZX	2440	140	-2.82	2440	210	-3.56
XY	2480	70	-17.55	2480	200	-1.35
YZ	2480	310	-5.95	2480	160	-4.32
ZX	2480	140	-4.03	2480	210	-4.18

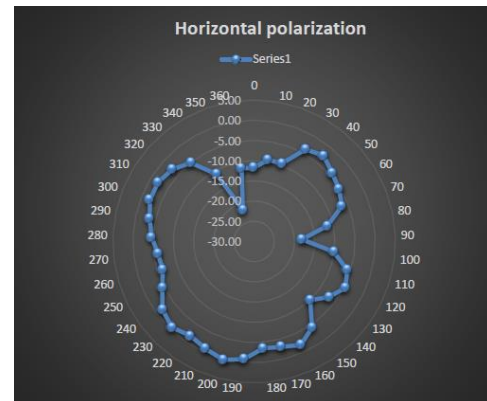
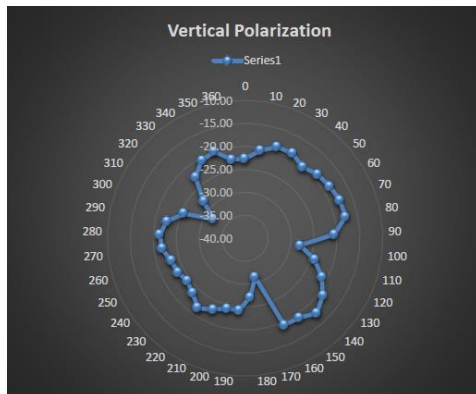
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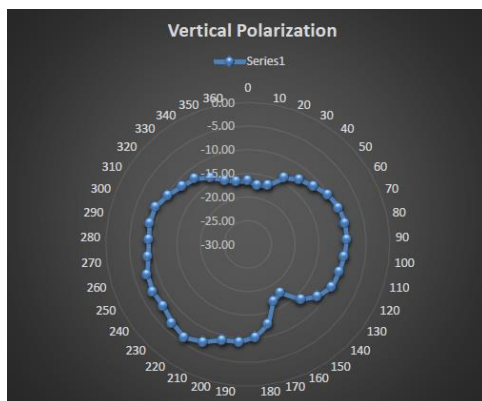
Antenna Radiation Pattern Plots:

Antenna Type	Antenna Polarization	Antenna Height (Mtr.)
Horn Antenna	Vertical	1.5
	Horizontal	1.5
Frequency	2402 Mhz.	2402 Mhz.

Orientation: XY



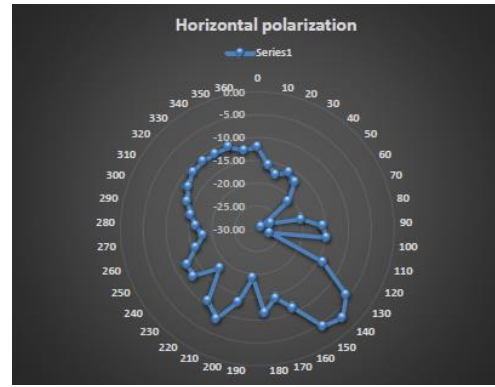
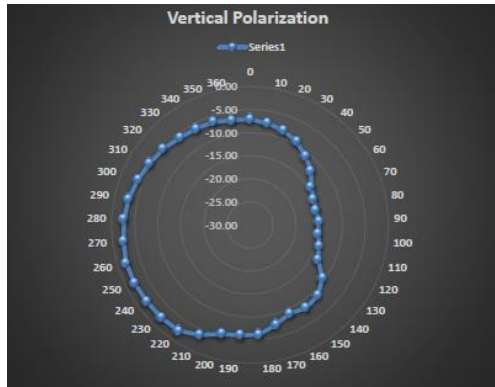
Orientation: YZ



Orientation: ZX

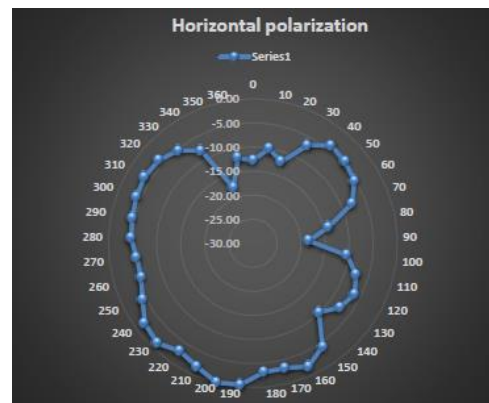
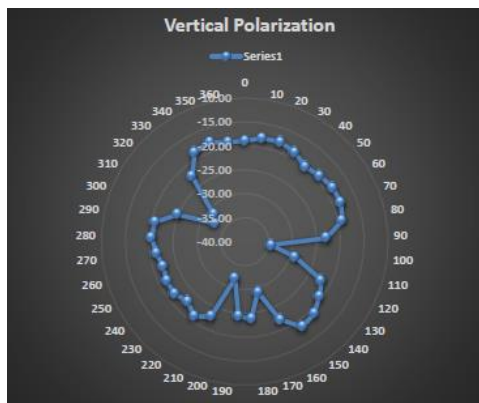
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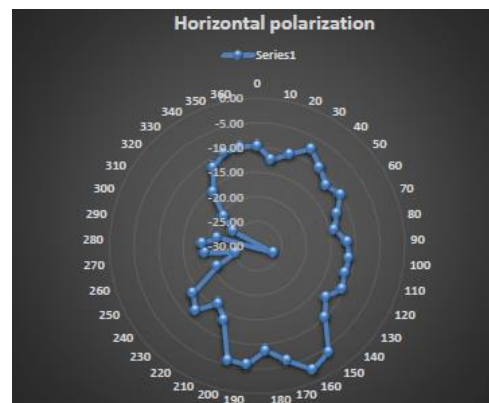
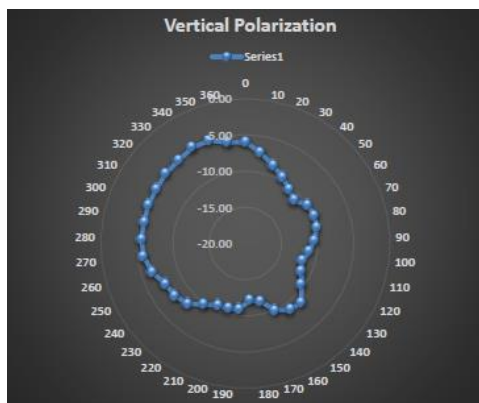


Antenna Type	Antenna Polarization	Antenna Height (Mtr.)
Horn Antenna	Vertical	1.5
	Horizontal	1.5
Frequency	2440 Mhz.	2440 Mhz.

Orientation: XY



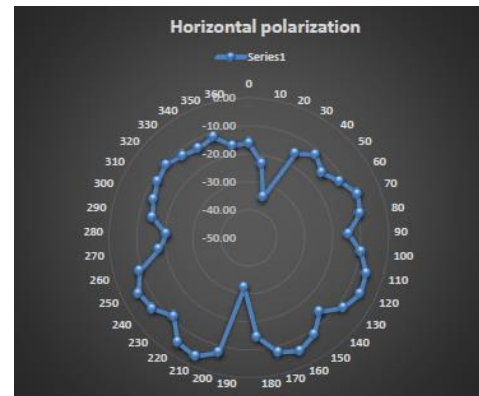
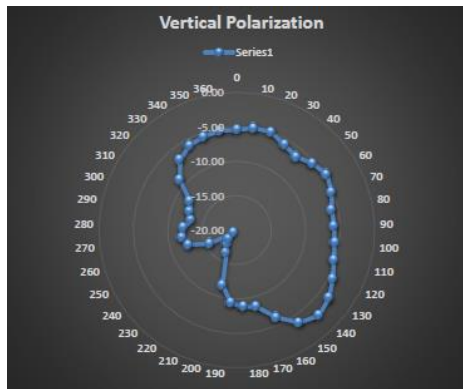
Orientation: YZ



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Orientation: ZX



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