

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

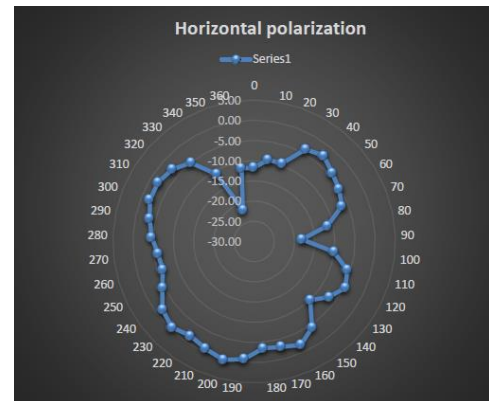
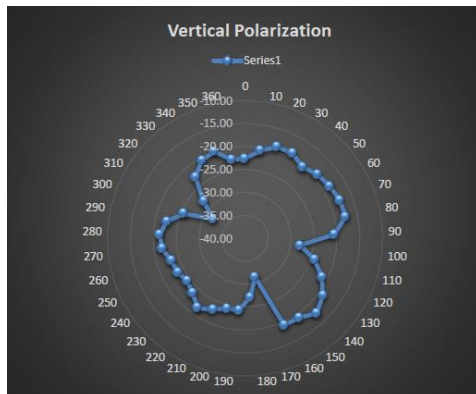
No.720-A/6, 9th Cross, 11 th Main, HAL II Stage, Indiranagar, Bangalore- 560 038.

Confidentiality Notice: This presentation contains confidential, trade secret, or other proprietary information of Str8bat Solutions India Private Limited (Str8bat) and is subject to non-disclosure terms and conditions in place between you and Str8bat. This presentation may not be transferred, copied, or disclosed to any third party without the express written authorization of Str8bat. This presentation, the information it contains, and feedback must be used solely for Str8bat related business purpose.

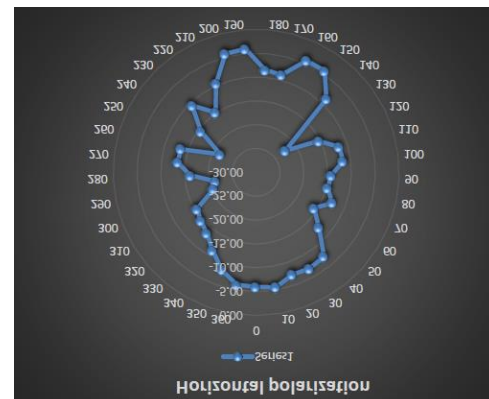
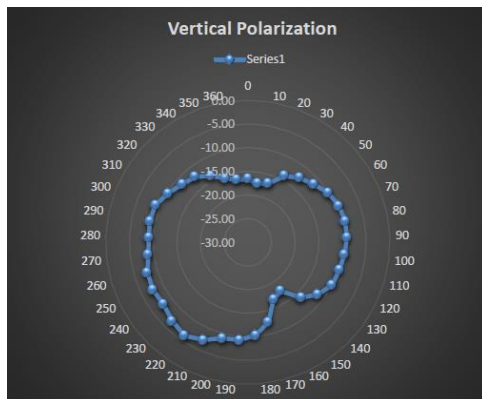
Antenna Radiation Pattern Plots:

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

Orientation: XY



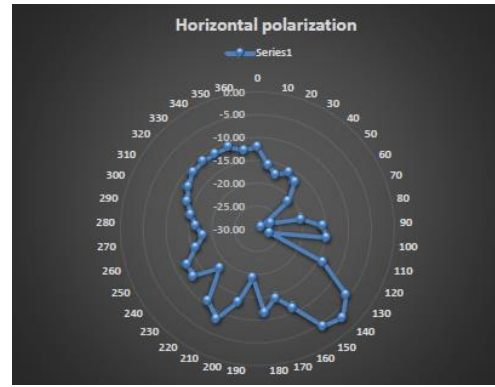
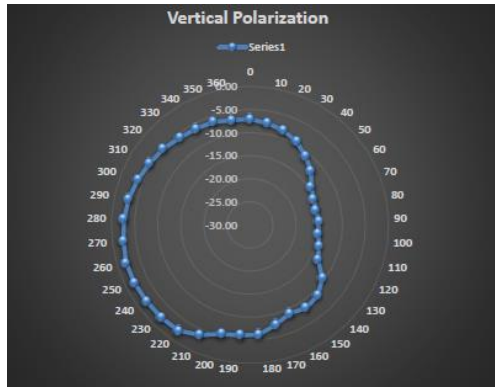
Orientation: YZ



Orientation: ZX

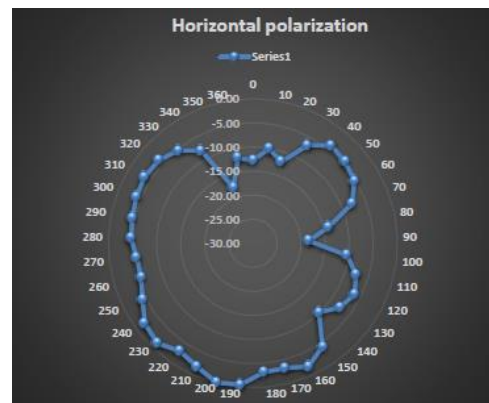
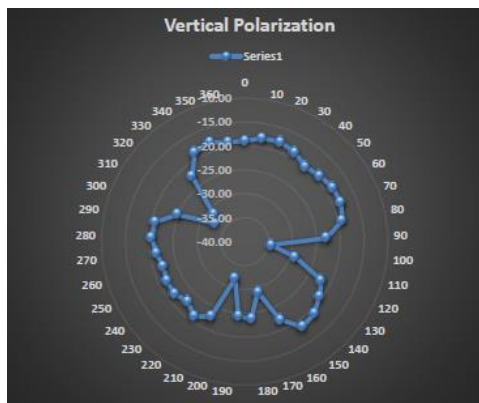
No.720-A/6, 9th Cross, 11 th Main, HAL II Stage, Indiranagar, Bangalore- 560 038.

Confidentiality Notice: This presentation contains confidential, trade secret, or other proprietary information of Str8bat Solutions India Private Limited (Str8bat) and is subject to non-disclosure terms and conditions in place between you and Str8bat. This presentation may not be transferred, copied, or disclosed to any third party without the express written authorization of Str8bat. This presentation, the information it contains, and feedback must be used solely for Str8bat related business purpose.

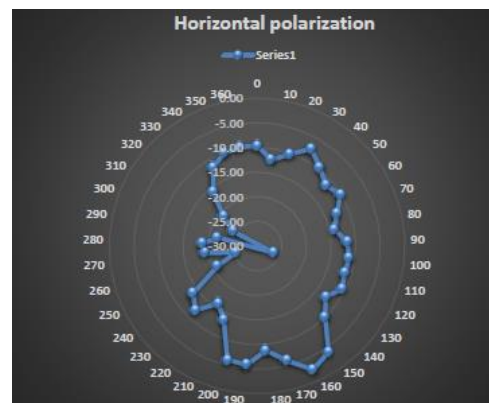
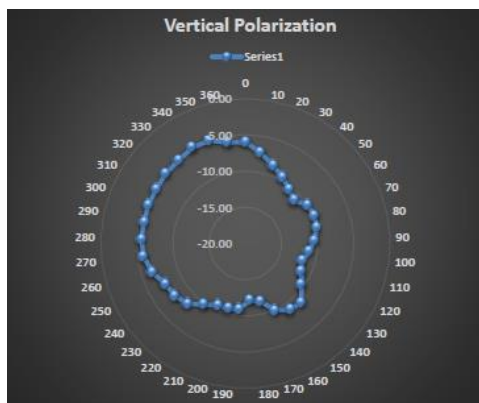


Antenna Type	Antenna Polarization	Antenna Height (Mtr.)
Horn Antenna	Vertical	1.5
	Horizontal	1.5
Frequency	2440 Mhz.	2440 Mhz.

Orientation: XY



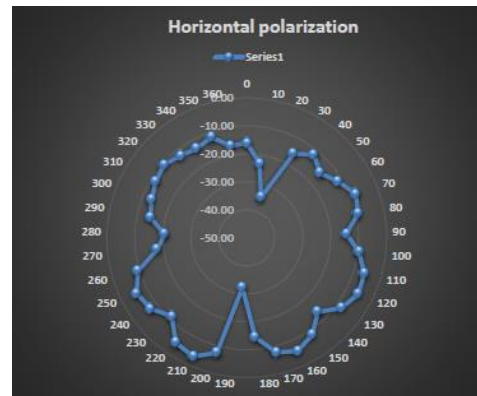
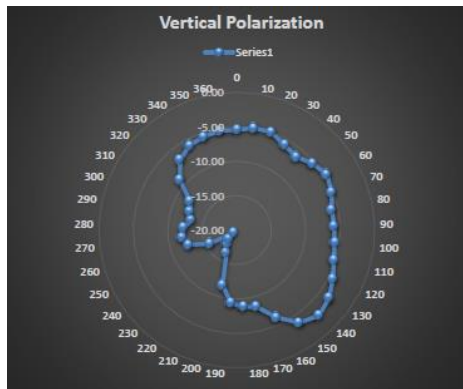
Orientation: YZ



No.720-A/6, 9th Cross, 11 th Main, HAL II Stage, Indiranagar, Bangalore- 560 038.

Confidentiality Notice: This presentation contains confidential, trade secret, or other proprietary information of Str8bat Solutions India Private Limited (Str8bat) and is subject to non-disclosure terms and conditions in place between you and Str8bat. This presentation may not be transferred, copied, or disclosed to any third party without the express written authorization of Str8bat. This presentation, the information it contains, and feedback must be used solely for Str8bat related business purpose.

Orientation: ZX



No.720-A/6, 9th Cross, 11 th Main, HAL II Stage, Indiranagar, Bangalore- 560 038.

Confidentiality Notice: This presentation contains confidential, trade secret, or other proprietary information of Str8bat Solutions India Private Limited (Str8bat) and is subject to non-disclosure terms and conditions in place between you and Str8bat. This presentation may not be transferred, copied, or disclosed to any third party without the express written authorization of Str8bat. This presentation, the information it contains, and feedback must be used solely for Str8bat related business purpose.