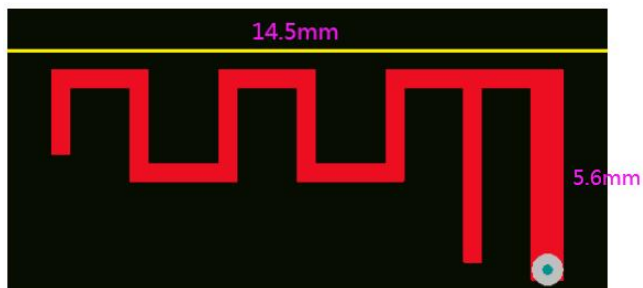


TK51A ANTENNA SPECIFICATION

Summary

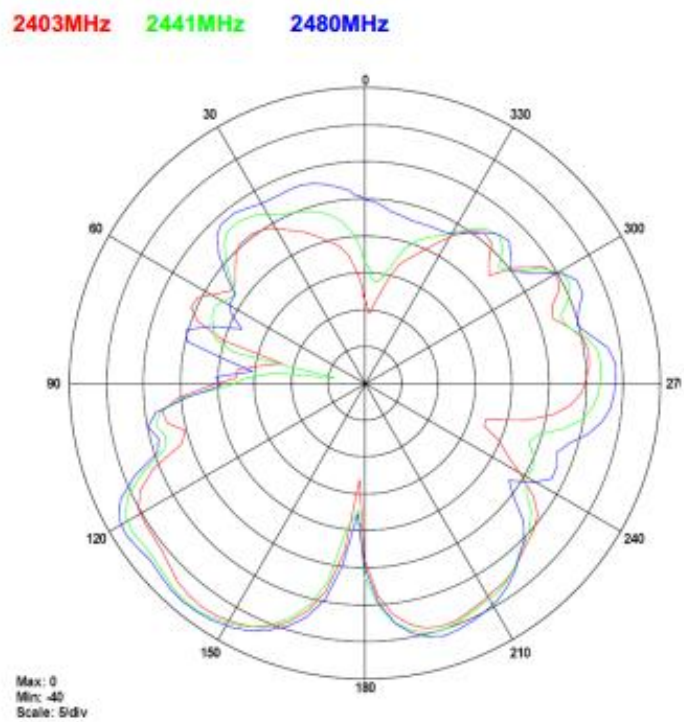
ITEM	Keyboard ANT SPEC					
Model Name	TK51A					
Center Frequency dBi	Horizontal			Vertical		
	2403MHz	2441MHz	2480MHz	2403MHz	2441MHz	24800MHz
	-3.47	-3.20	-2.65	-7.3	-4.9	-3.5
MAX. Gain	-2.65dBi					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	14.5mm					
Manufacture	DONGGUAN SHUO CHUANG ELECTRONICS CO LTD					
Address	Shijie Town, Dongguan City, Guangdong Province Development Industrial Park					

Antenna Photo & Length (mm)



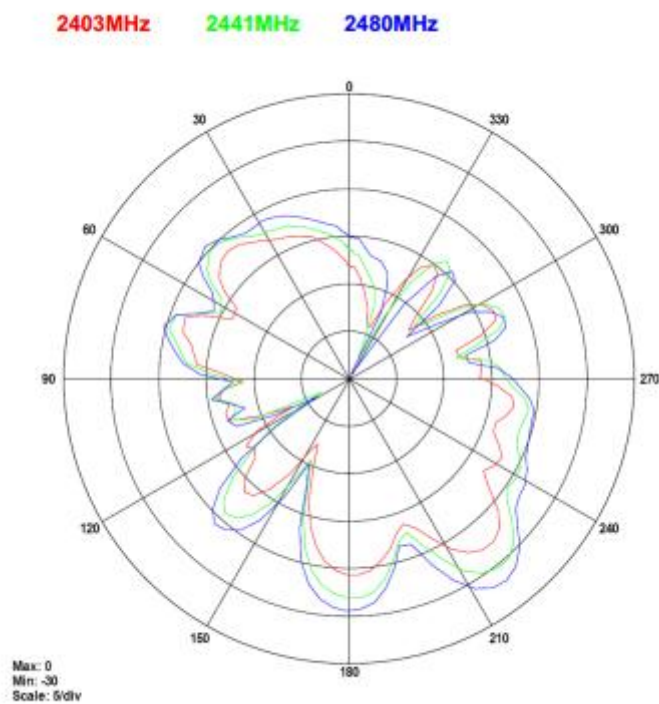


Horizontal: 2403 MHz 2441 MHz 2480 MHz
Gain (dBi)



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2403	-3.47	-28.52	-9.85
2441	-3.20	-36.42	-8.68
2480	-2.65	-24.45	-7.35

Vertical: 2403 MHz 2441 MHz 2480 MHz
Gain (dBi)



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2403	-7.3	-24.6	-13.4
2441	-4.9	-27.6	-11.8
2480	-3.5	-29.4	-12.5