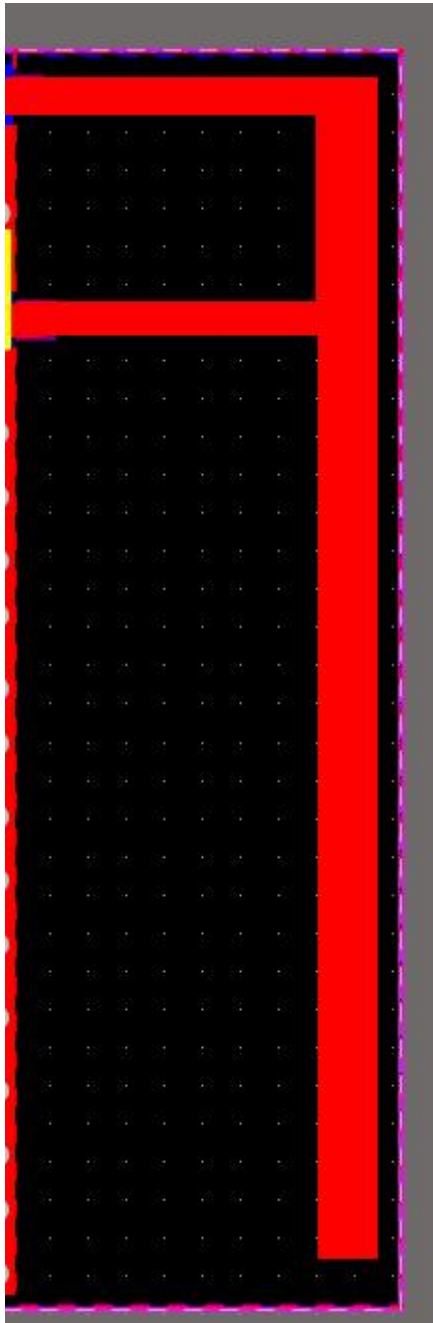


TK52A ANTENNA SPECIFICATION

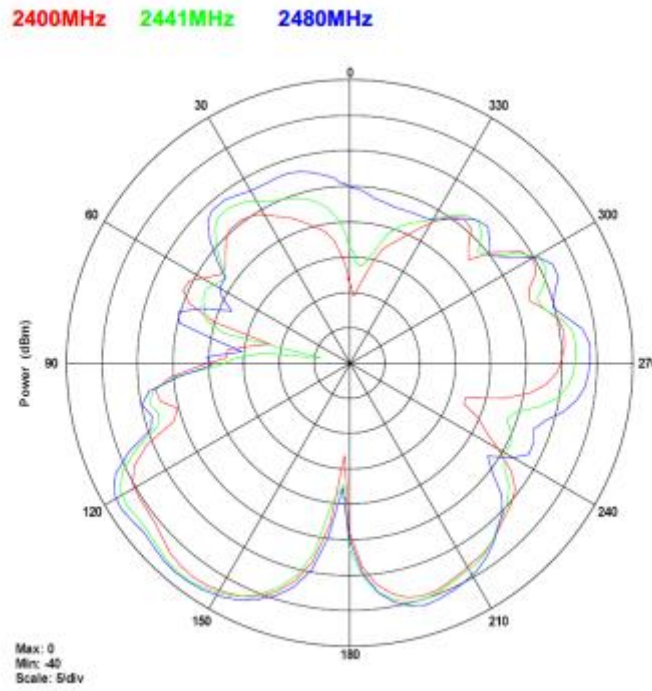
Summary

ITEM	Keyboard ANT SPEC					
Model Name						
Center Frequency	Horizontal			Vertical		
	2409MHz	2441MHz	2480MHz	2403MHz	2441MHz	2480MHz
Gain(dBi)	-3.47	-3.20	-2.65	-7.3	-5.9	-4.5
MAX. Gain(dBi)	-2.65					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	14.5mm*7.2mm					
Manufacture	DONGGUAN SHUO CHUANG ELECTRONICS CO LTD					
Address	Development Industrial Park, Tongfu West Road, Shijie Town, Dongguan City, Guangdong Province, China					

Antenna Photo & Length (mm)

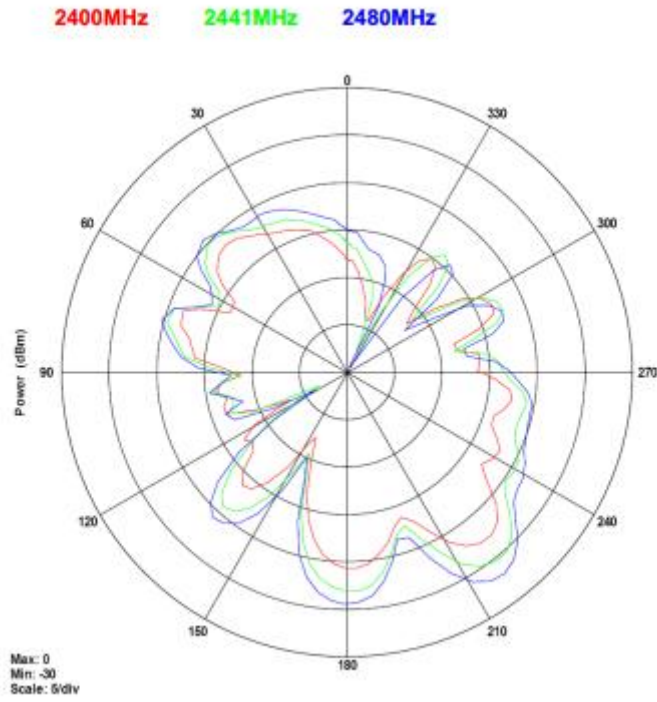


Horizontal: 2400 MHz 2441 MHz 2480 MHz



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2400	-3.47	-28.52	-9.85
2441	-3.20	-36.42	-8.68
2480	-2.65	-24.45	-7.35

Vertical: 2400 MHz 2441 MHz 2480 MHz



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
2403	-7.3	-24.6	-13.4
2441	-5.9	-27.6	-11.8
2480	-4.5	-29.4	-12.5