

CONFIDENTIAL

1KT-001 Antenna

FCC/ISED Radio Act Application Antenna Information



1KT-001 Antenna Antenna Application information

Application Antenna Name: 1KT-001 Antenna_RF cable 30mm

Application Antenna Type : Monopole antenna

Application Antenna Gain : 0dBi @ 2.4GHz band

1.5dBi @ 5GHz band

2.0dBi @ 6GHz band

Application Antenna Name: 1KT-001 Antenna_RF cable 300mm

Application Antenna Type : Monopole antenna

Application Antenna Gain : -1.8dBi @ 2.4GHz band

-2.2dBi @ 5GHz band

-2.2dBi @ 6GHz band

Measurement result

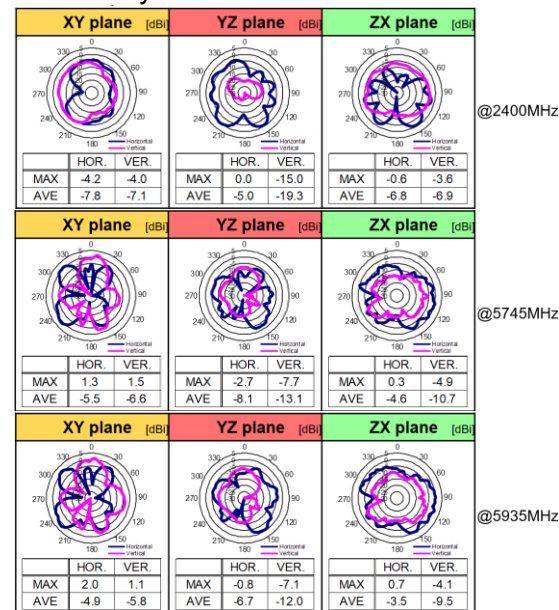
Type1KT_Cable length 30mm

<Efficiency>

LINEAR POLARIZATION		XY-plane		YZ-plane		ZX-plane		Total Efficiency
		hor.	ver.	hor.	ver.	hor.	ver.	
2400 MHz	MAX.	-4.2	-4.0	0.0	-15.0	-0.6	-3.6	-4.0
	AVE.	-7.8	-7.1	-5.0	-19.3	-6.8	-6.9	
5745 MHz	MAX.	1.3	1.5	-2.7	-7.7	0.3	-4.9	-3.8
	AVE.	-5.5	-6.6	-8.1	-13.1	-4.6	-10.7	
5935 MHz	MAX.	2.0	1.1	-0.8	-7.1	0.7	-4.1	-2.9
	AVE.	-4.9	-5.8	-6.7	-12.0	-3.5	-9.5	

* Red color shows peak gain

<Directivity>



Measurement result

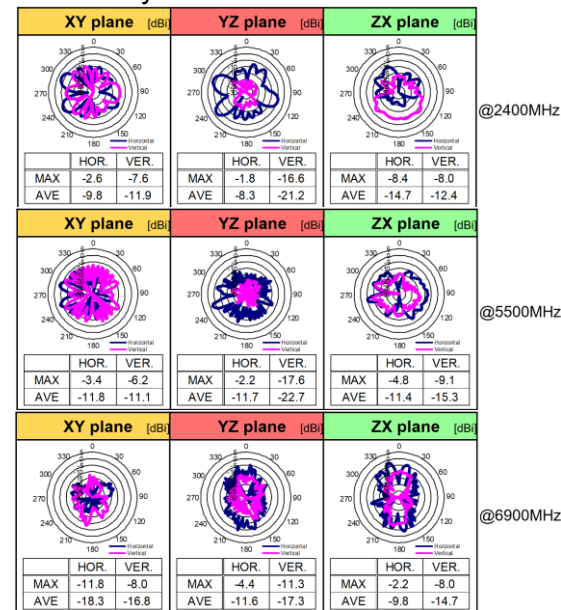
Type1KT_Cable length 300mm

<Efficiency>

LINEAR POLARIZATION		XY-plane		YZ-plane		ZX-plane		Total Efficiency
		hor.	ver.	hor.	ver.	hor.	ver.	
2400 MHz	MAX.	-2.6	-7.6	-1.8	-16.6	-8.4	-8.0	-8.2
	AVE.	-9.8	-11.9	-8.3	-21.2	-14.7	-12.4	
5500 MHz	MAX.	-3.4	-6.2	-2.2	-17.6	-4.8	-9.1	-10.1
	AVE.	-11.8	-11.1	-11.7	-22.7	-11.4	-15.3	
6900 MHz	MAX.	-11.8	-8.0	-4.4	-11.3	-2.2	-8.0	-11.2
	AVE.	-18.3	-16.8	-11.6	-17.3	-9.8	-14.7	

* Red color shows peak gain

<Directivity>



1. Test method for antenna gain measurement

- Test method for antenna gain measurement:
Standard antenna method (comparative method)
 - * Comparing a measured antenna to a standard antenna with a known gain factor
- Equipment used for antenna gain measurement (model name, serial number, calibration date, etc.);
 - Measurement system (*details next page)
 - Microwave Vision Group SG32 18GHz (S/N: TYP6581S)
 - Calibration date : December 26, 2025
 - Network Analyzer
 - P9374A (S/N: MY57213280)
 - Calibration date : June 2, 2025
 - Antenna gain measurement date / Measurement person January 14, 2026 / Rie Ichimura