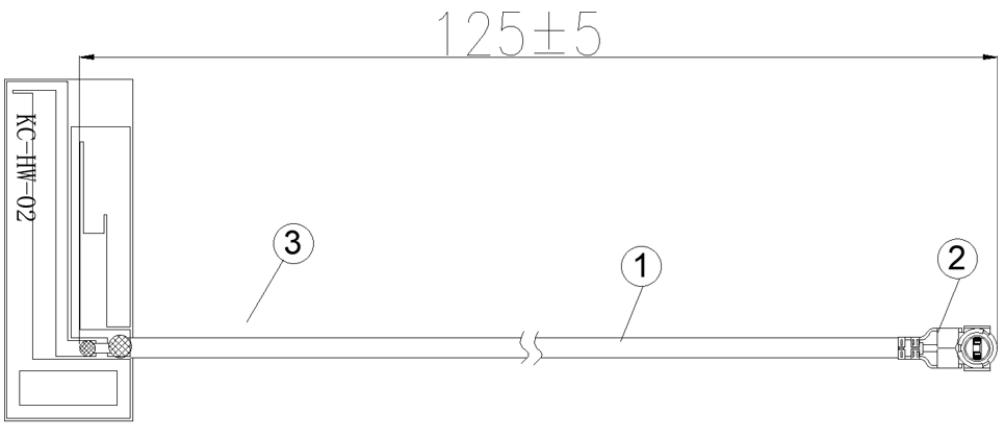


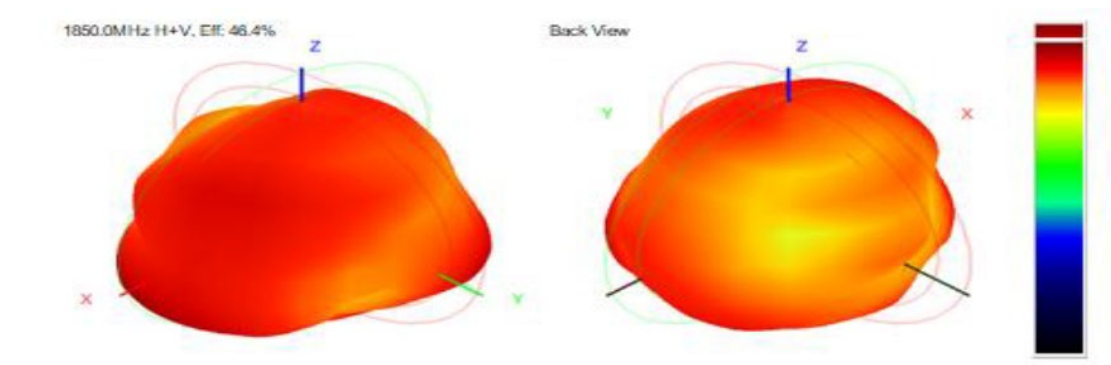
Antenna Specification

Antenna Information	
Manufacturer	Dongguan KaiChuang Technology Limited
Prepared by	Dongguan KaiChuang Technology Limited
Model	KC-HW-02
Use on Device	Mini V2
Frequency Range	1800-2000MHz (LTE Band 2)
Max Antenna Gain	2.59dBi
Efficiency	46.4%

Antenna Layout & module on the system board (mm)



Antenna Layout 3-D Pattern Plots



Gain and Efficiency

Frequency ID	1	2	3	4	5
Frequency (MHz)	1800	1850	1900	1950	2000
Efficiency (dBi)	-3.36	-3.33	-3.43	-3.65	-3.45
Gain (dBi)	2.16	2.40	2.10	1.93	2.59
Efficiency (%)	46.18	46.40	45.41	43.14	45.22
Directivity (dB)	5.52	5.74	5.53	5.59	6.04
Peak Gain Position (Theta)	135.00	135.00	135.00	105.00	135.00
Peak Gain Position (Phi)	135.00	135.00	135.00	0.00	135.00
Efficiency ThetaPol (%)	16.67	16.89	17.62	16.25	16.74
Efficiency PhiPol (%)	29.51	29.51	27.79	26.88	28.49
Upper Hem. Efficiency(%)	16.71	16.48	15.19	15.42	14.93
Lower Hem. Efficiency(%)	29.49	29.92	30.23	27.71	30.29

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