



Shenzhen hlktech Electronics Co. , LTD

HLK-B36 Onboard antenna specification

一、Overview

The PCB antenna is an onboard antenna designed according to the dimensions of HLK-B36.

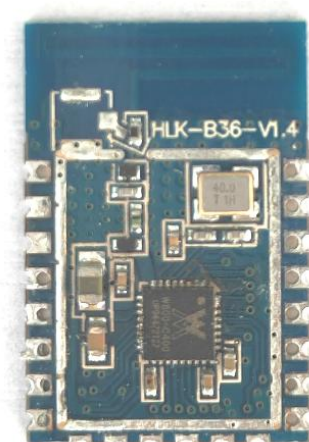


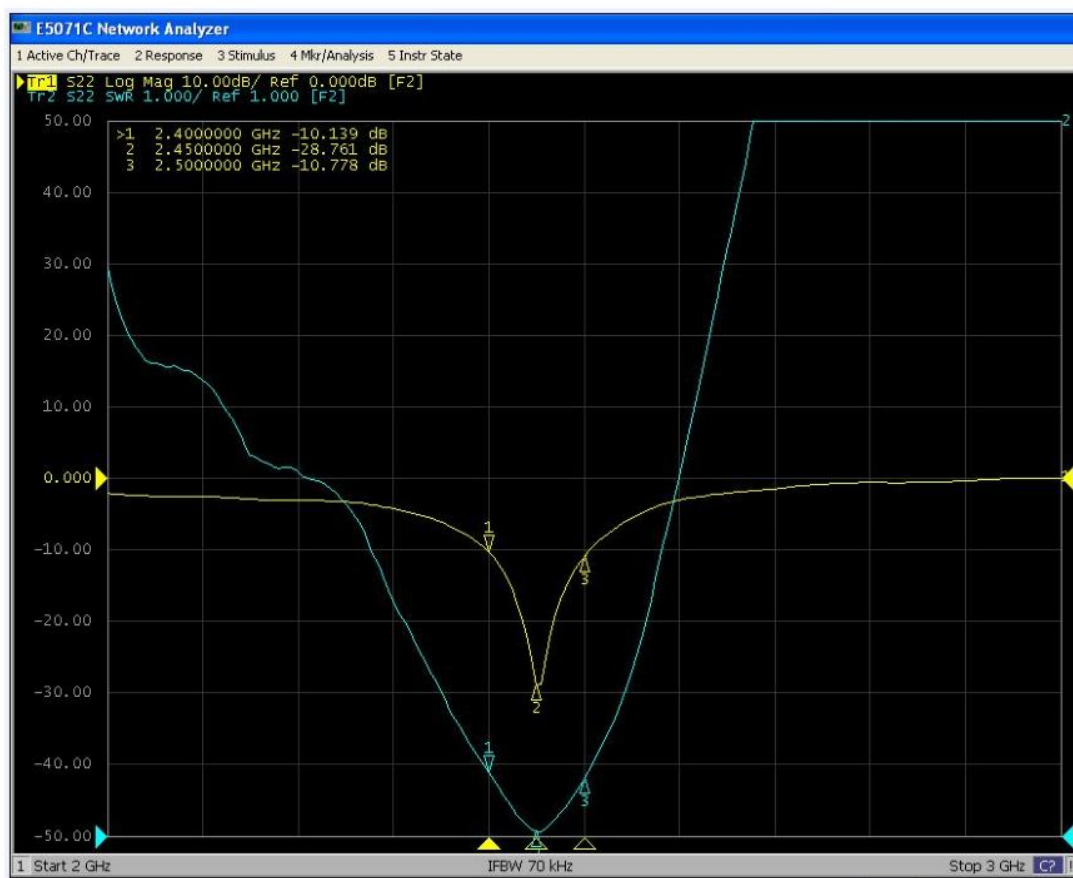
Figure 1: Position and effect of HLK-B36 onboard antenna

二、Basic parameter:

parameter	index	remarks
Frequency Range (MHz)	2400-2500	
Gain (dBi)	2.5	
Standing wave ratio V.S.W.R.	<1.5	
Polarization	Vertical	
Non-Circularity (dB)	± 0.5	
Impedance (Ω)	50	
Lightning Protection	Direct Ground	
Maximum Input Power (W)	50	
Operating Temperature ($^{\circ}\text{C}$)	$-40^{\circ}\sim+70^{\circ}$	
Reposition Temperature ($^{\circ}\text{C}$)	$-55^{\circ}\sim+80^{\circ}$	

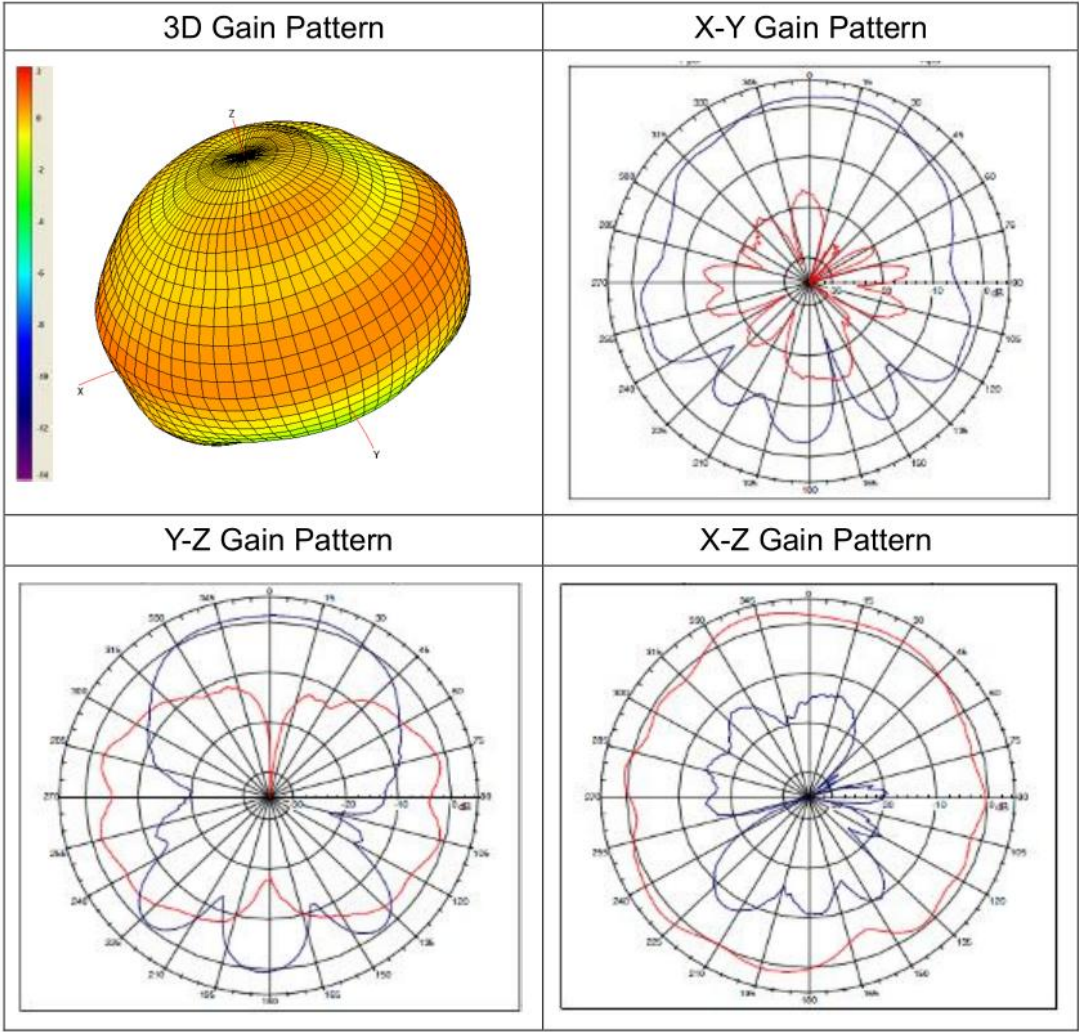
Table 1: Basic parameters

三、Return loss (S11/VSWR)



	2.4GHz	2.45GHz	2.5GHz
S11 (dB)	-10.1	-28	-10.7
VSWR	1.9	1.1	1.9

四、Radiation mode (2.45GHz)



	X-Y plane	X-Y plane	X-Y plane
Avg gain(dBi)	-3.5	-0.36	-1.76
Peak gain(dBi)	2.08	2.5	1.46

五、Size information

