



Shenzhen Hi-Link Electronic Co., Ltd.

HLK-B20, Board Antenna Specification

Manufacturer: Shenzhen Hi-Link Electronic Co., Ltd.

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I. Overview

The PCB antenna is a board-mounted antenna designed according to the size of the HLK-B20.



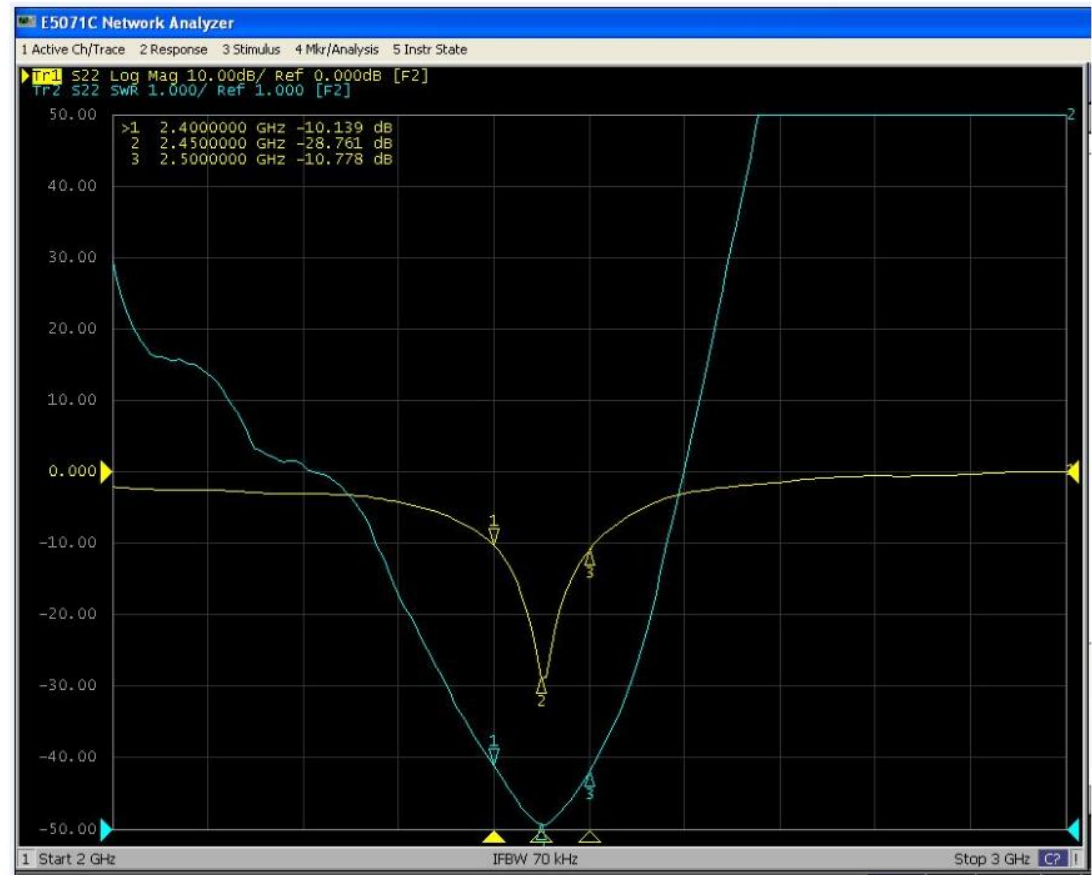
Figure 1: Position and schematic diagram of the onboard antenna on the HLK-B20 board

II. Basic Parameters:

parameter	metric	remarks
Band frequency range (MHz)	2400–2500	
Gain in dBm	2.51	
Resonance ratio V.S.W.R.	<1.5	
Polarization	Vertical	
Non-Circularity (dB)	± 0.5	
Input impedance Impedance(Ω)	50	
Lightning protection	Direct Ground	
Maximum power (W)	50	
Operating temperature Operating temperature ($^{\circ}\text{C}$)	$-40^{\circ}\sim+70^{\circ}$	
Storage temperature Reposition temperature ($^{\circ}\text{C}$)	$-55^{\circ}\sim+80^{\circ}$	

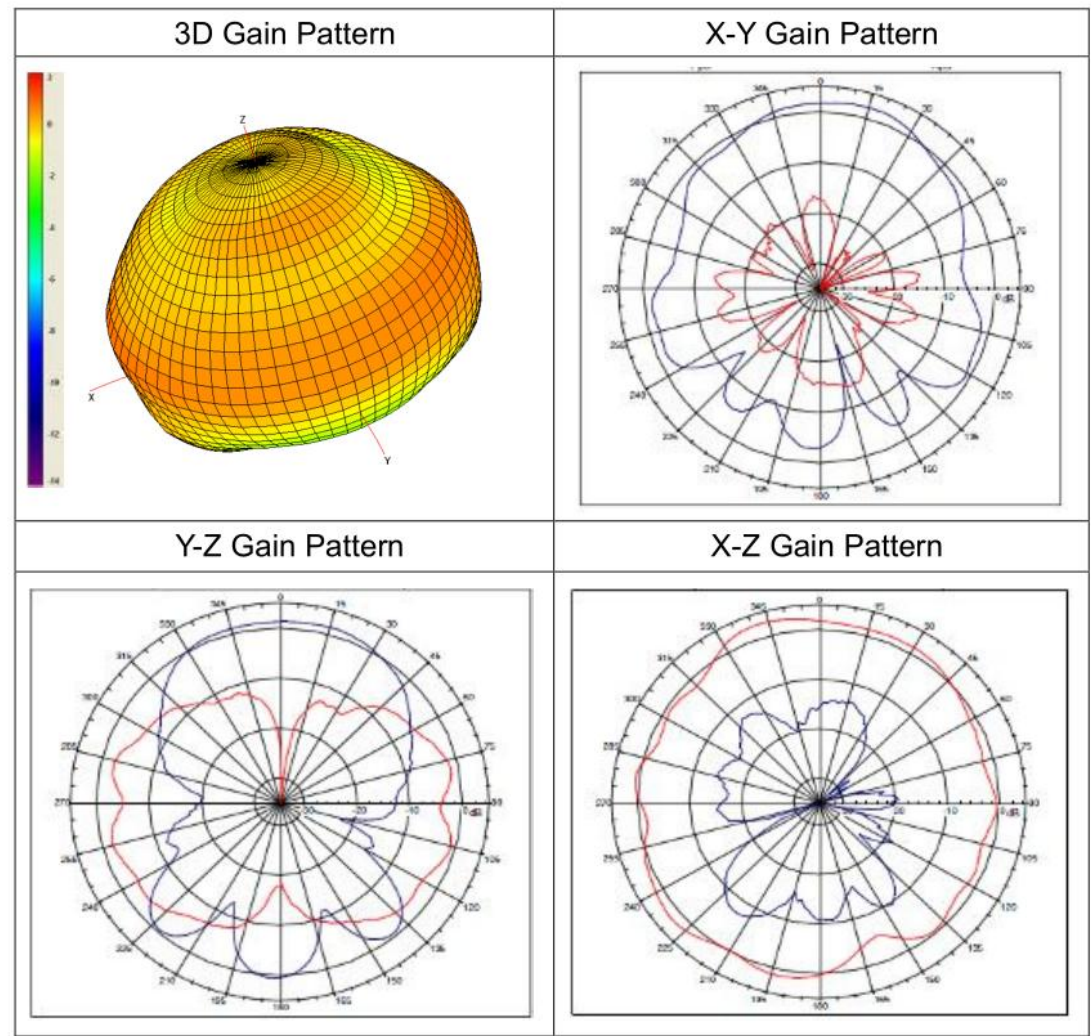
Table 1: Basic Parameters

III. Return Loss (S11/VSWR)



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

IV. Radiation Patterns (2.45 GHz)



	X-Y plane	X-Y plane	X-Y plane
Avg gain(dBi)	-3.5	-0.36	-1.76
Peak gain(dBi)	2.08	2.51	1.46