

HLK-B50 antenna specification

1. Overview

The PCB antenna is an onboard antenna designed according to the size of HLK-B50.

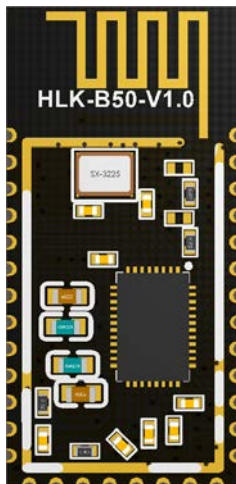
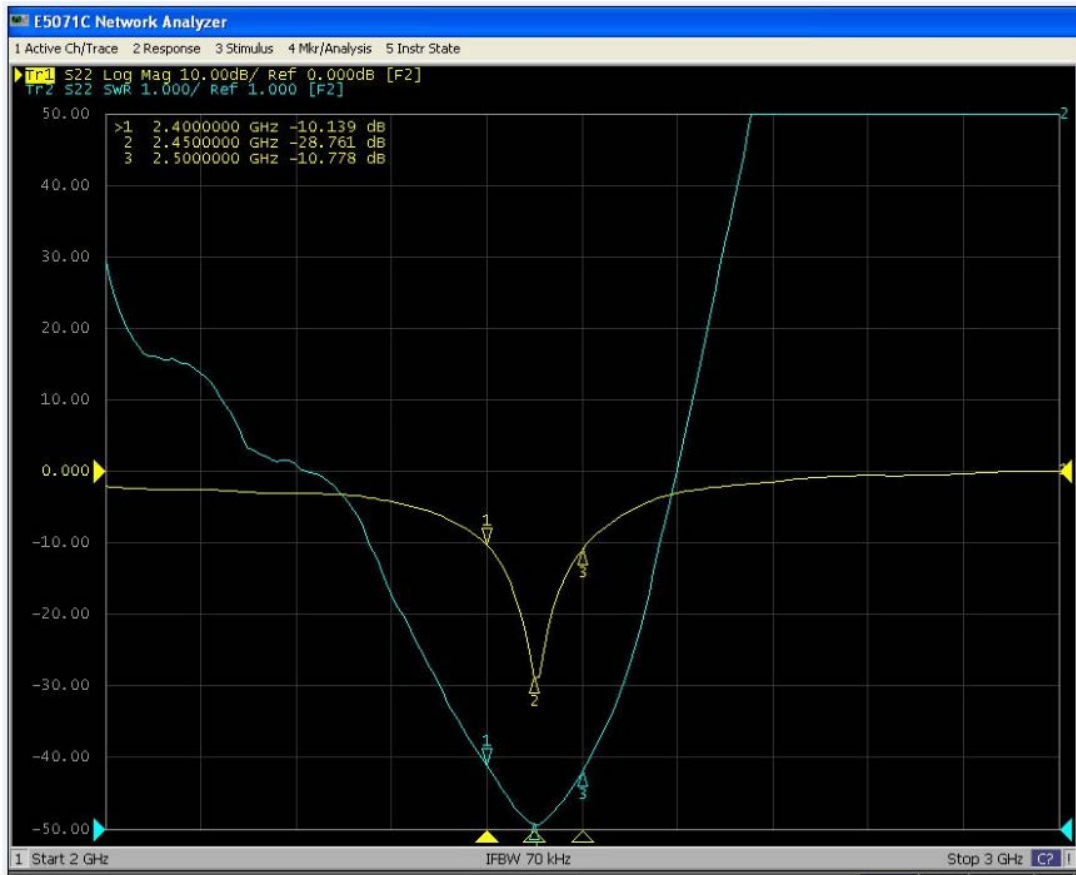


Figure 1: HLK-B50 onboard antenna

2. Basic parameters:

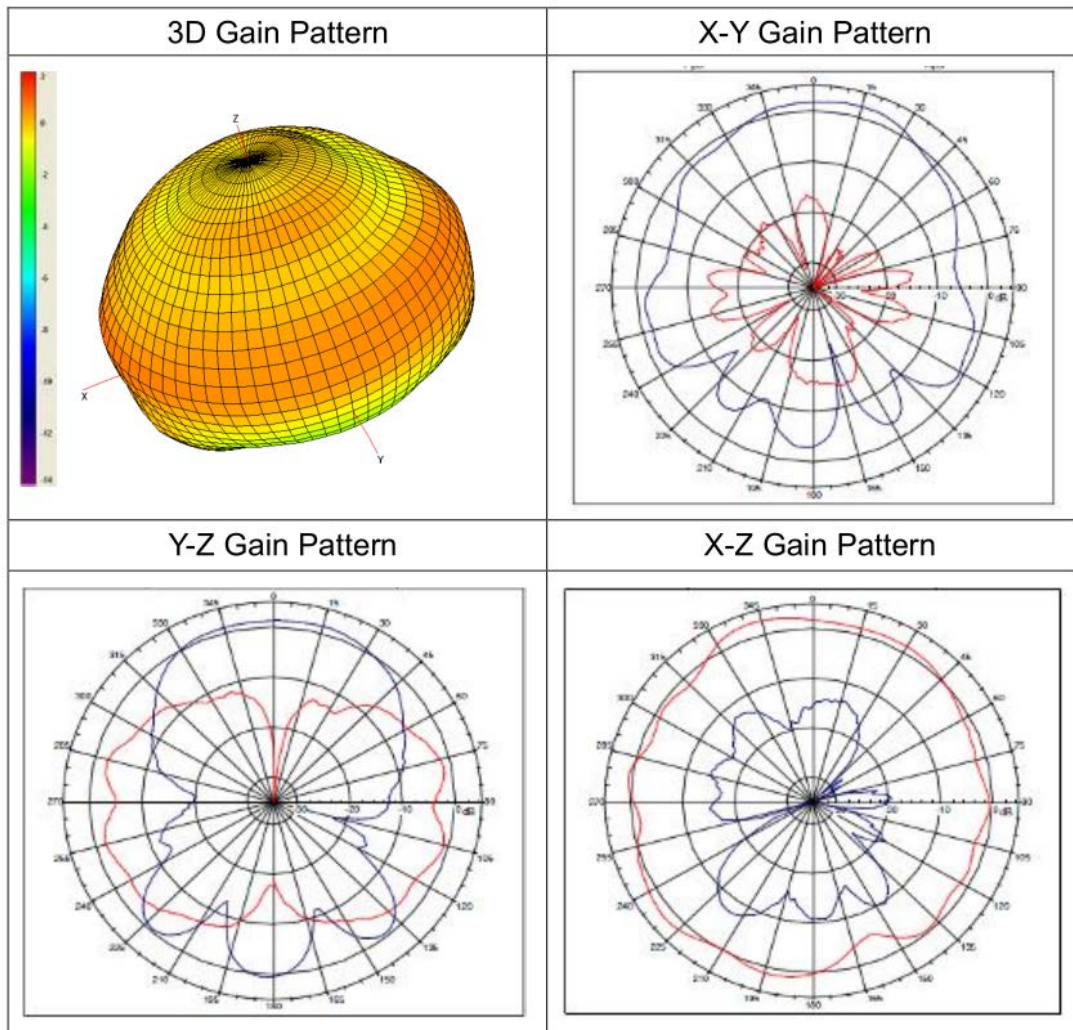
Parameter	Index	Notes
Frequency Range (MHz)	2400–2500	
Gain (dBi)	2.5dBi	
V. S. W. R.	<1.5	
Polarization	Vertical	
Non-Circularity (dB)	± 0.5	
Impedance (Ω)	50	
Lightning Protection	Direct Ground	
Maximum Input Power (W)	50	
Operating Temperature ($^{\circ}\text{C}$)	$-40\sim+70$	
Reposition Temperature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

3. return loss (S11/VSWR)



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

4. 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	2.50	1.46

Manufacturer:

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