

Shenzhen jingsong technology co., ltd

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Leader of microwave communication technology

HK08 antenna comprehensive measurement report

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April 16(th), 2024

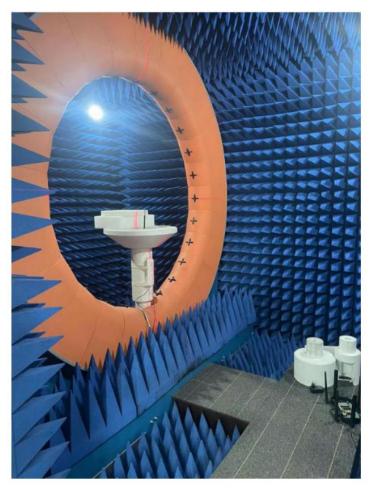


HK08								
mainboard								
Main antenna		frequency band	Antenna state	Antenna form	Design area	Matching change		
	ВТ	2402-2480MHz	Metal frame	Hey, hey, hey, hey, hey, hey, hey.	, Watch ring	without		

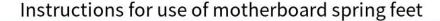


testing environment





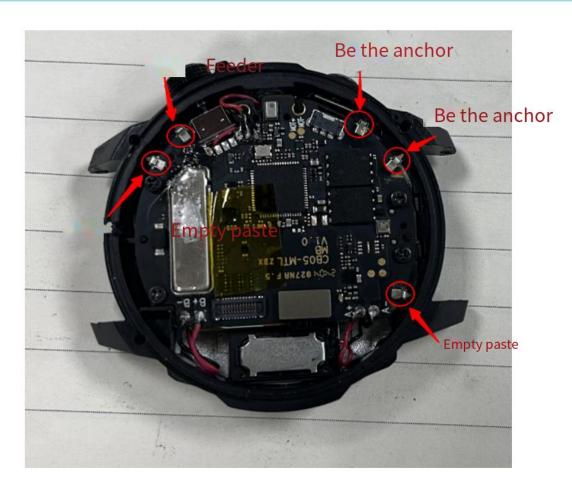
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Remarks: This antenna design uses a feed foot and two feet, as shown in the figure.

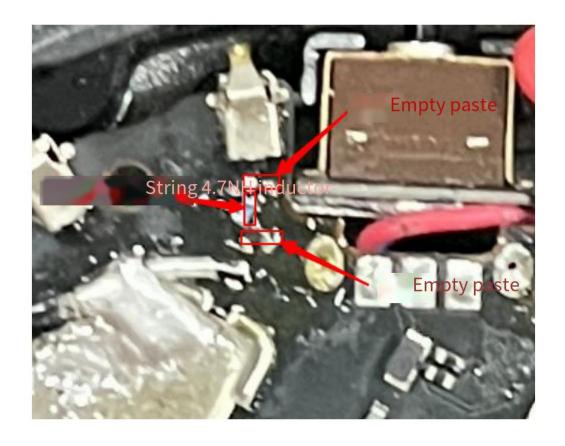






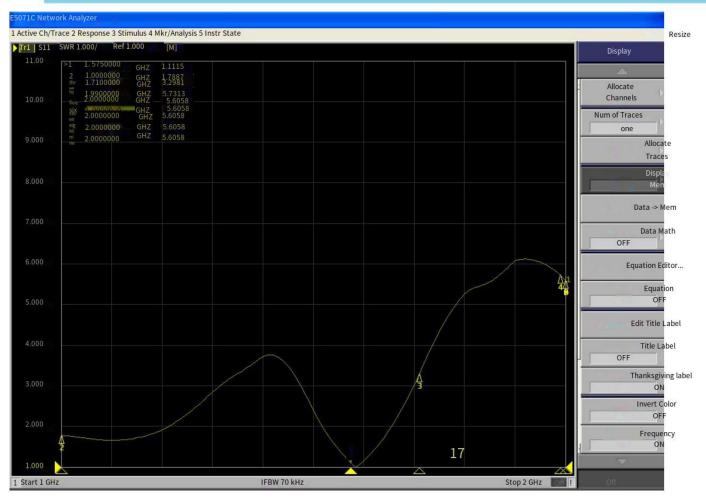


Remarks: As shown in the figure, connect a 4.7NH inductor in series on the main circuit.





L1 antenna standing wave diagram



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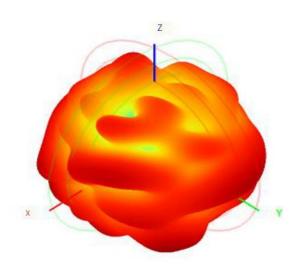
L1 antenna test data

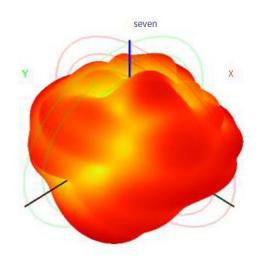
Antenna test data:

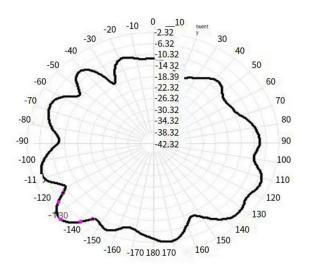
Test data:							
ВТ							
Freq(MHz)	Efficiency (%)	Gain (dBi)					
2402	14.3	2.10					
2410	14.6	2.05					
2420	14.5	2.03					
2430	15.7	3.35					
2440	15.2	2.08					
2450	15.7	2.01					
2460	14.8	2.10					
2470	14.8	2.07					
2480	14.3	2.03					



L1 antenna pattern









Remarks: The test site is the roof of the 4th floor of our company.

