

Specification for Approval

CONTENTS

Customer:	N/A	Vendor:	N/A
Customer P/N:	N/A	HL P/N:	N/A
Product model:	HSELCQ_02_60MG_B1	HL Device Name:	N/A
Pcb antenna brand:	Fuxiang	Approval Date:	2026-6-6
Manufacturer	HANSHOW PTE. LTD.		
Address	138 ROBINSON ROAD #02-33 OXLEY TOWER SINGAPORE(068906)		

Internal Approval		
Approved By:	Checked By:	Prepared By:
		Zhang Bin
Customer Approval		

Revision:

Date	Rev	Description of Changes
2021-4-08	A	Initial Release

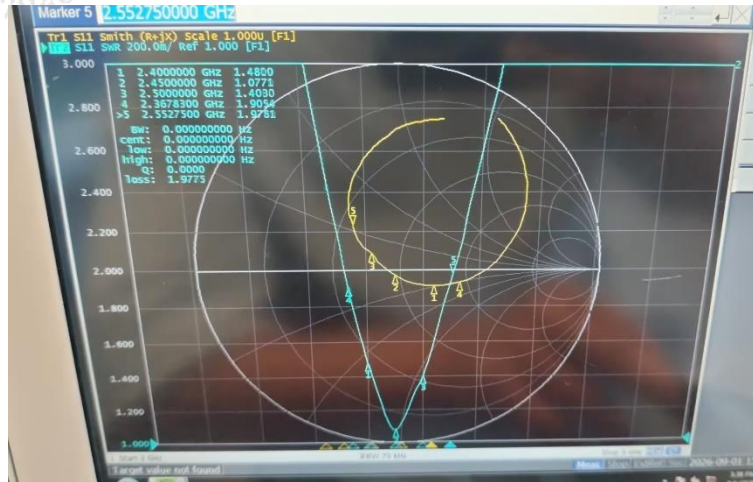
1、Products Electrical

PCB Antenna

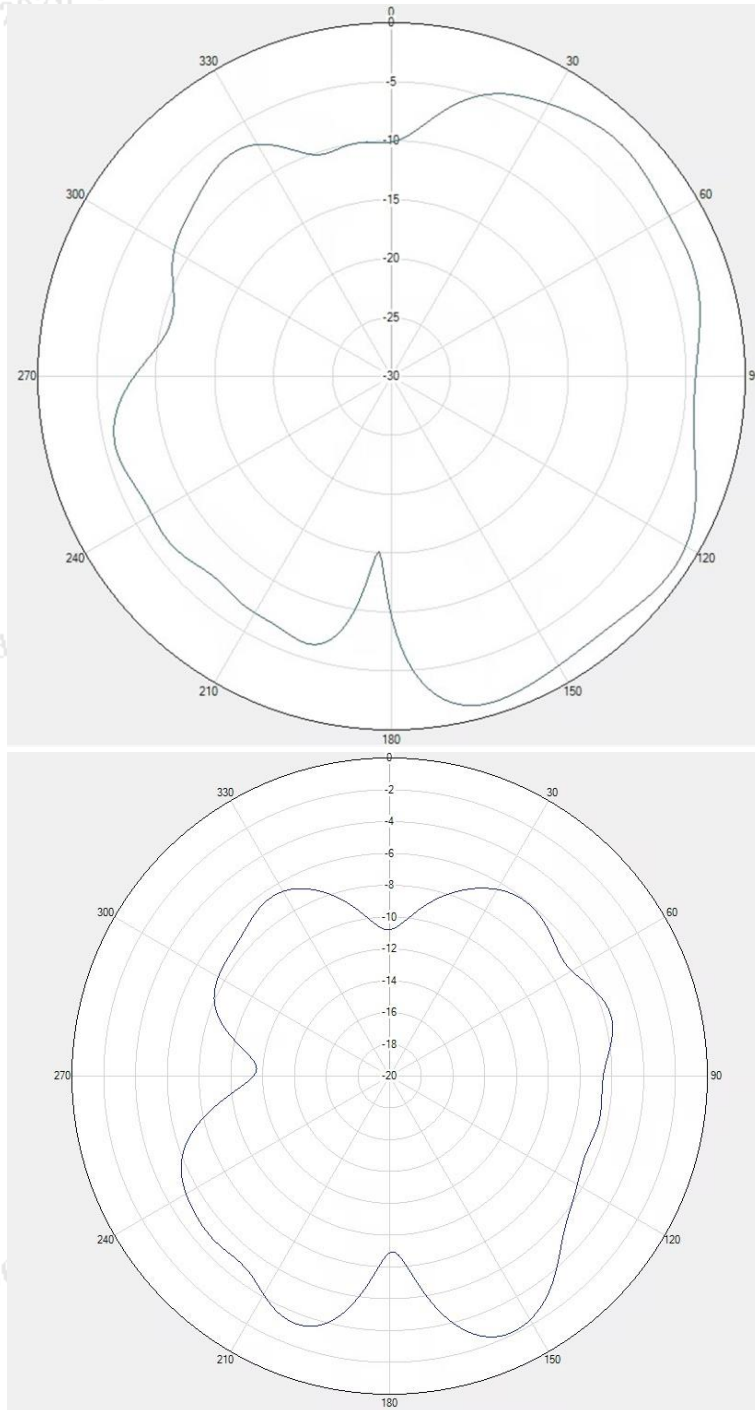
1	Antenna Model	PCB IFA Antenna
2	Frequency Range	2400-2500MHz
3	VSWR (or return loss)	<2 (<-9.5dB)
4	Broadband	>100MHz
5	Impedance	50 ohm
6	Gain	-0.7dBi
7	Polarization	LP

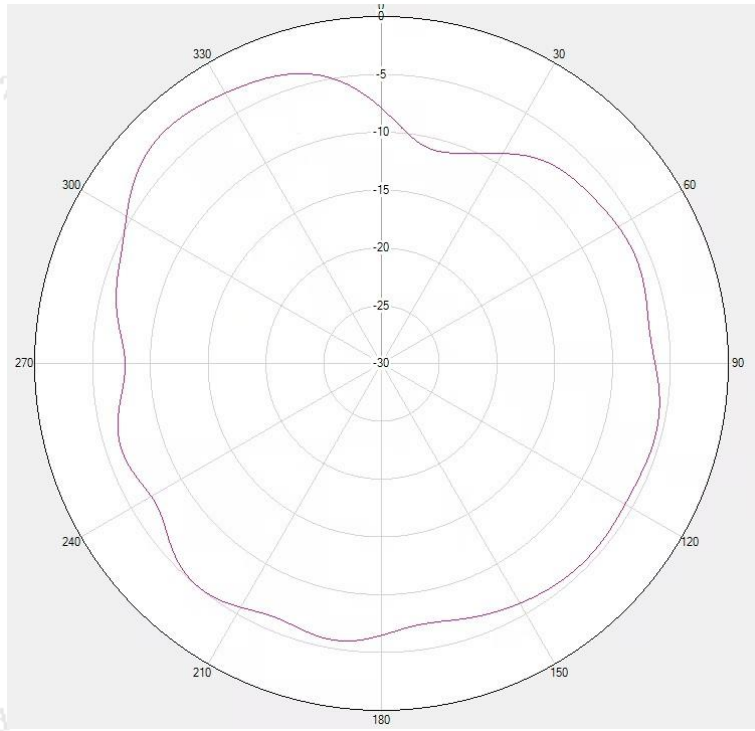
2、Antenna Test Data

2.1 VSWR



2.2 RADIATION PATTERNS 2450MHz





2.3 GAIN AND EFFICIENCY

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	31.6	-1.2
2410	31.2	-1.3
2420	33.9	-1.4
2430	37.3	-1.2
2440	34.4	-1.4
2450	34.8	-1.1
2460	31.2	-0.9
2470	34.3	-0.7
2480	32.6	-0.7
2490	33.2	-1.7
2500	31.6	-1.3

3、PCB ANTENNA (MM)

