

Antenna Test Report



Customer	航世
Project	HB236-3ST01键盘
Antenna Revision	A0
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Checked by	
Date:	2024. 11. 8

Purpose

This report is to measure the performance of antenna for [HB236-3ST01](#)键盘. The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

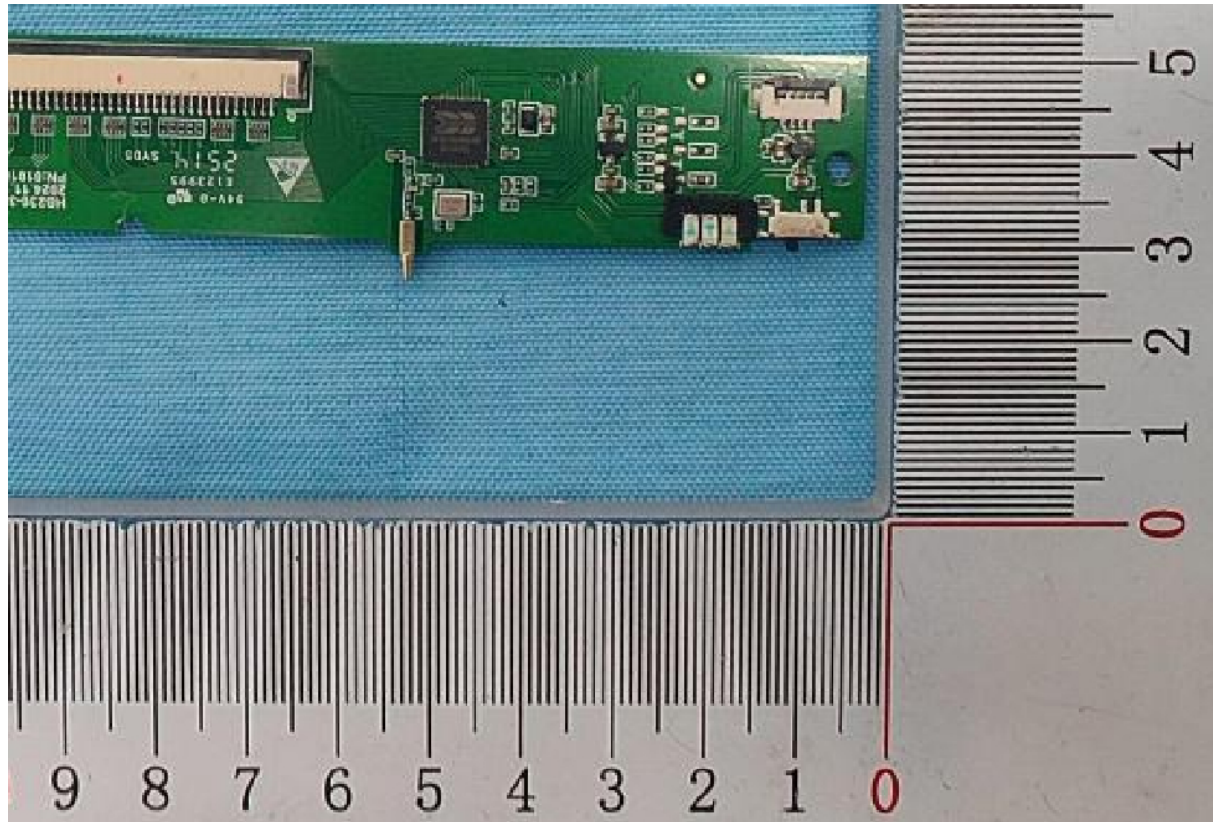
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1.Product Overview & Dimension

Antenna



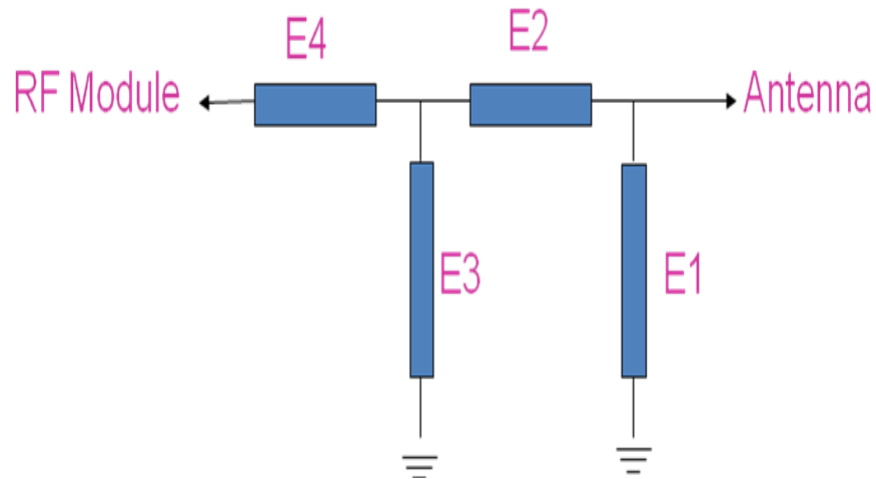
2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C & Agilent 4438C & CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



3. Antenna Matching Network

	Dimension (mm)
L	2.05 ± 0.20
W	1.23 ± 0.20
T	0.45 ± 0.20



Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

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4. Test Result

4.1 S11 Parameter-VSWR



Frequency	2400	2450	2480	2500
VSWR	1.81	1.59	1.37	1.23

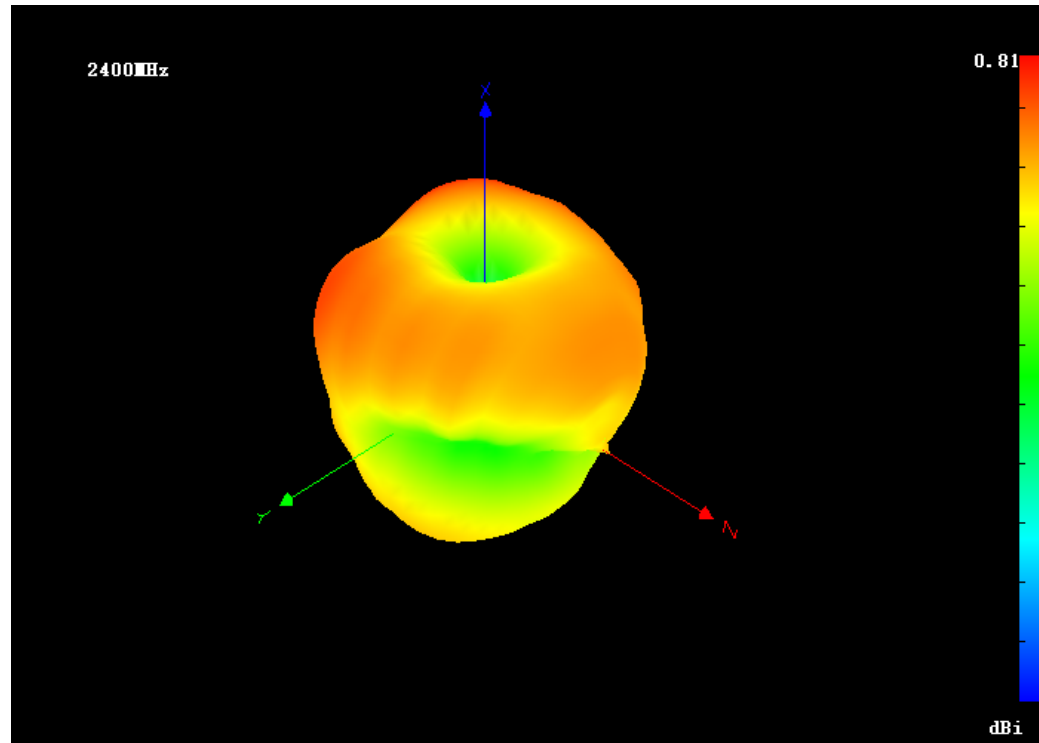
4. Test Result

4.2 Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	24.2%	0.81
2410	24.8%	0.66
2420	24.4%	0.57
2430	25.9%	0.52
2440	25.4%	0.50
2450	28.6%	0.25
2460	29.3%	-0.06
2470	29.4%	-0.39
2480	28.6%	-0.76
2490	28.3%	-1.24
2500	27.6%	-1.11

4. Test Result

4.3 3D Pattern



Thank you !