

	Date	07/08/2026	Version No.	V1.0
--	------	------------	-------------	------

Shenzhen Rongshengyuan Technology Co.,Ltd

PRODUCTSPECIFICATION

Customer	Shenzhen Smart Care Technology Co., Ltd.
Customer's partnumber	Align40
Product MaterialCode	R-Ant-A40
Working Band	2400-2500MHz
IssueDate	2026-07-08
Release Version	V1.0
Author	Carol Yang

Carol Yang

1 PRODUCT TECHNICAL SPECIFICATION

Electrical Specifications	
Frequency Range (MHz)	2400-2500
Bandwidth(MHz)	100
Input Impedence(Ω)	50
VSWR	<2
Gain(dBi)	-4.96
Polarization Type	Vertical
Mechanical Specifications	
Antenna Length(mm)	
Antenna Type	FPC Antenna
Operatin Temp($^{\circ}$ C)	-30~70
Storing Temp($^{\circ}$ C)	-30~70

2 PRODUCT ELECTRICAL PERFORMANCE PARAMETER

1. Product picture



Cop:



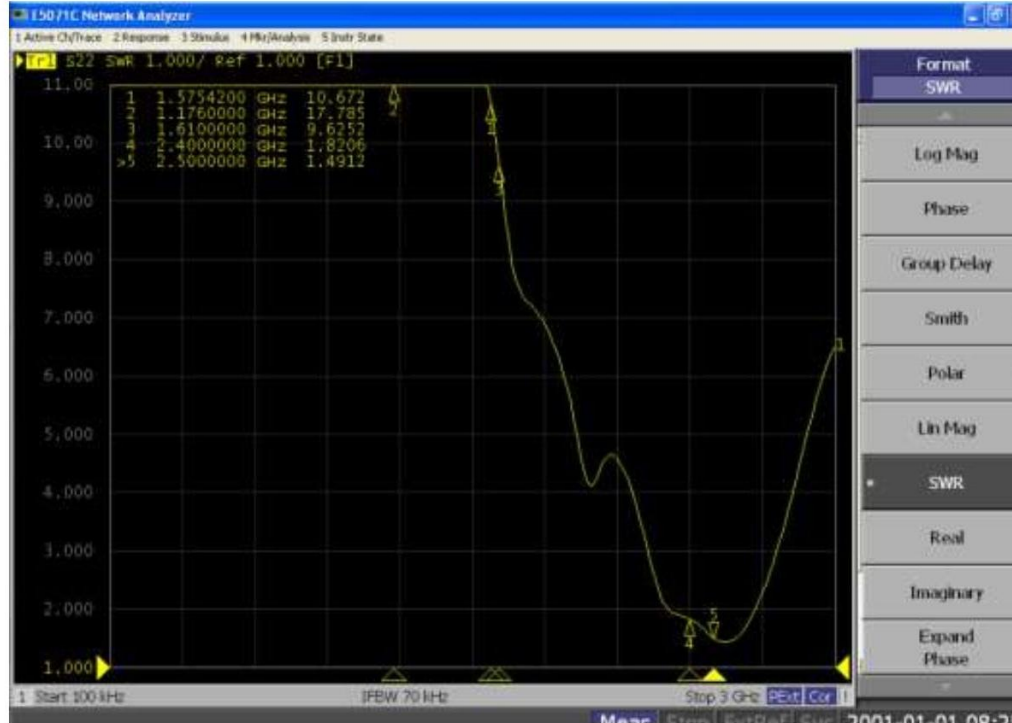
nolog

Adress:703,No.55 Ainan Road,Longdong Community,Baolong Street,Longgang District,Shenzhen

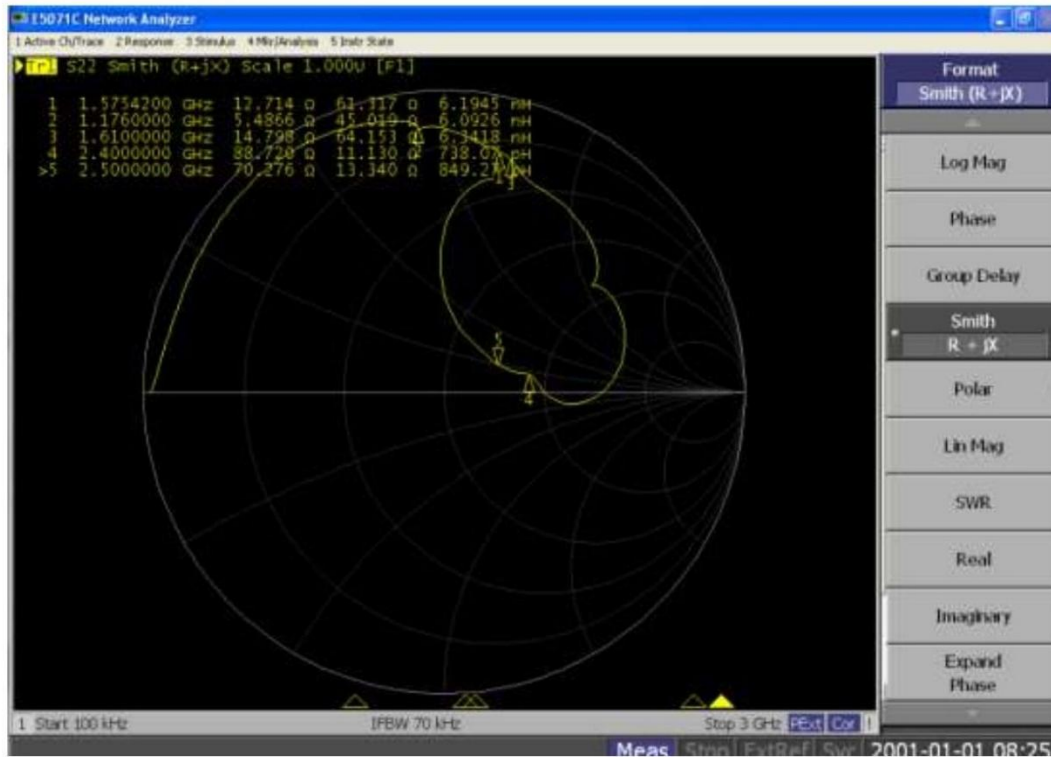


2

2.3 VSWR



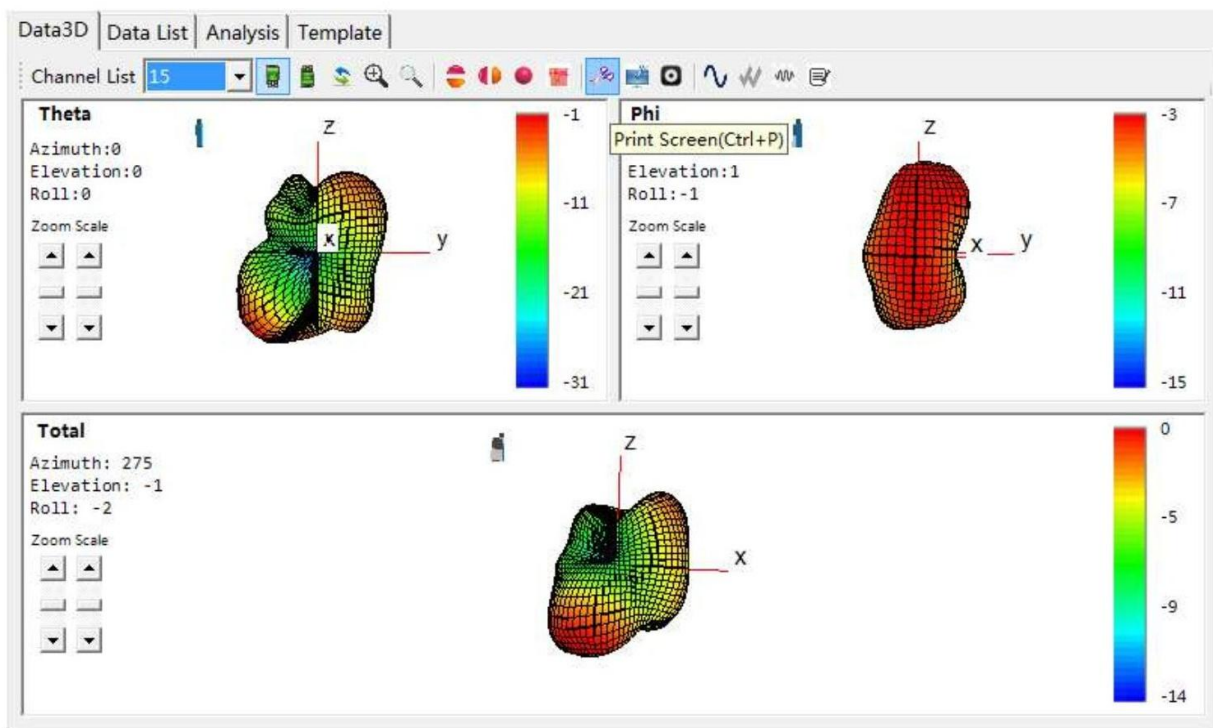
2.4 Smith Chart



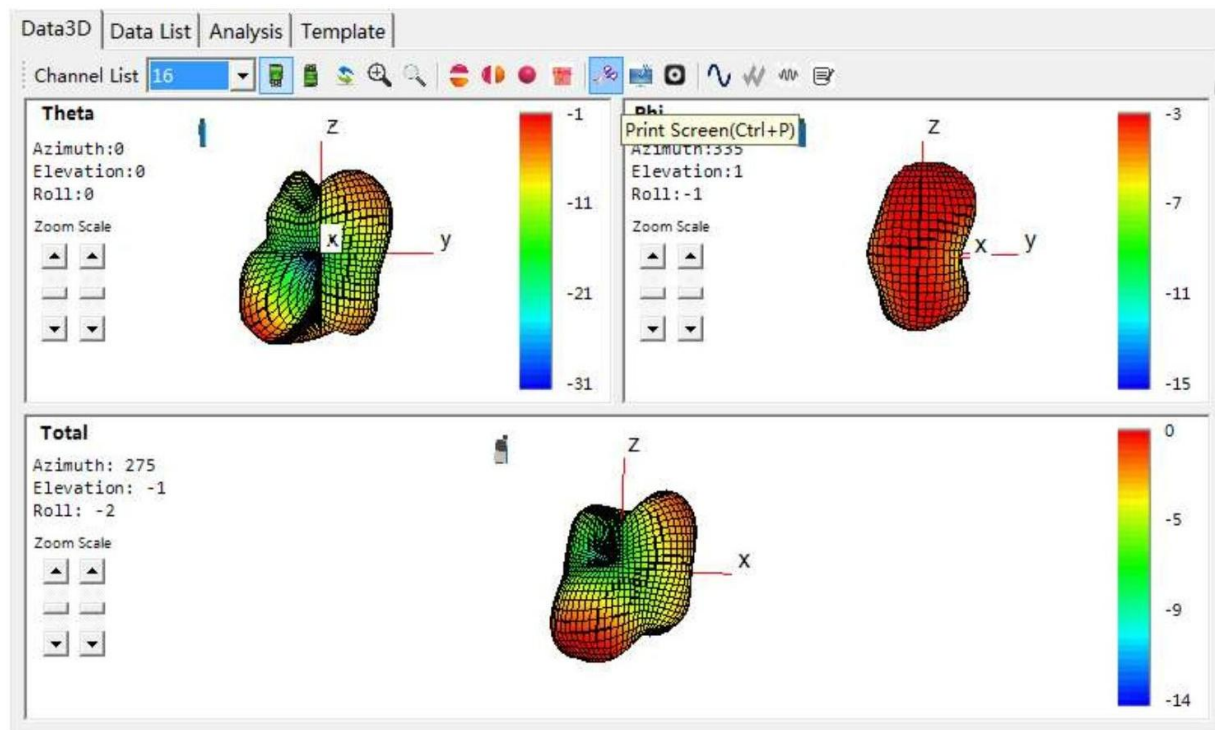
3

Fre.(MHz)	Gain (dBi)	Eff.(dB)	Eff.(%)
2400	-6.24	-11.14	7.68
2410	-5.92	-10.82	8.28
2420	-6.29	-10.48	8.95
2430	-6.75	-10.43	9.06
2440	-6.45	-10.2	9.55
2450	-5.84	-10.13	9.7
2460	-5.67	-10.13	9.71
2470	-5.46	-9.85	10.35
2480	-5.27	-9.66	10.8
2490	-5.09	-10.27	9.4
2500	-4.96	-10.81	8.31

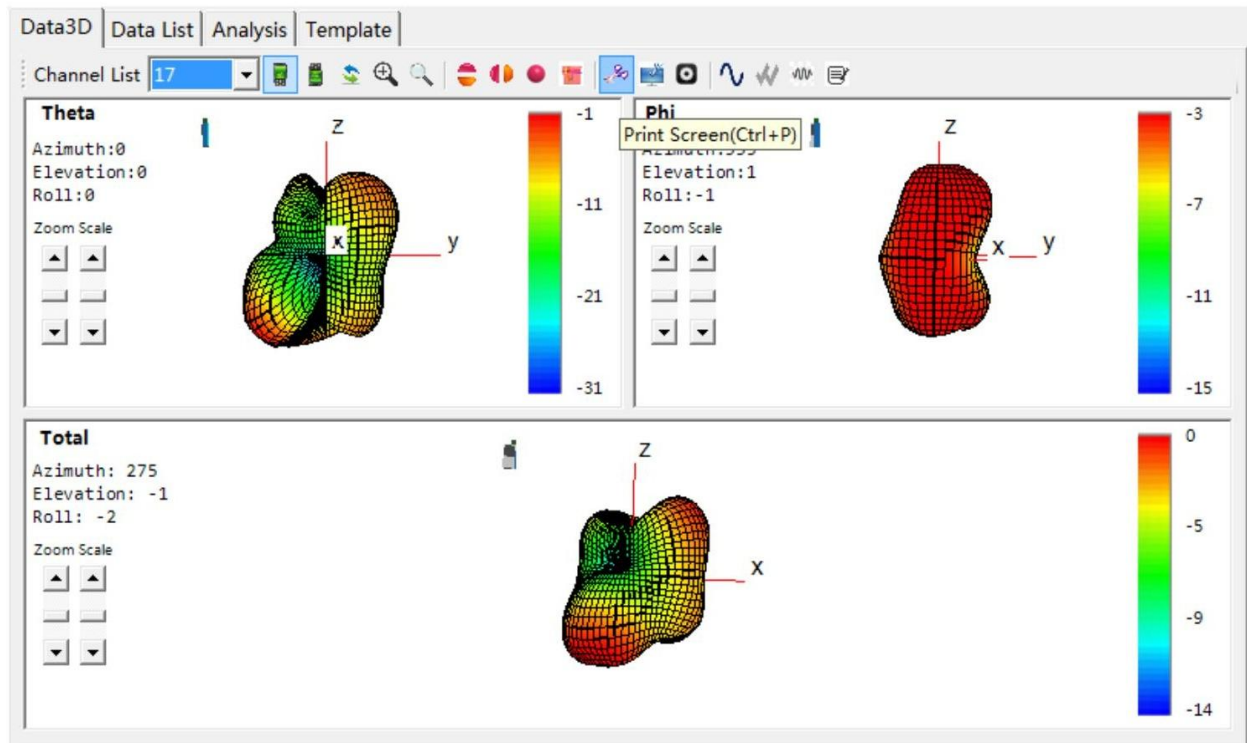
2.6 Radiation Pattern
2408MHz



2450MHz

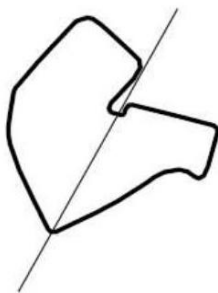


2480MHz



Adress:703,No.55 Ainan Road,Longdong Community,Baolong Street,Longgang District,Shenzhen

3 Product dimensions



U注:

1. “*” 尺寸为重点管控尺寸。
2. 未注尺寸以图形为准，未注公差参考公差表。
3. 所有产品均需满足客户样可靠性测试。
 4. 外形冲切平顺，不可伤到内部线路，铜箔走线公差 ± 0.05 以内。
5. 金手指镀金。
6. 半对半哑黑 镀金，胶纸常规即可。
7. 丝印白色字符 R-A40 V2.2

UNIT:mm