



TEST REPORT

ISSUED FOR

Shenzhen ALEX Electronics Co., Ltd.

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MANUFACTURER	:	Shenzhen DBT Telecommunication Technology CO.,LTD
PRODUCT NAME	:	Ceramic antenna
MODEL NAME	:	AAN3216F0V01
MAX Gain	:	0 dBi
TRADE NAME	:	N/A
Test Standard	:	IEEE149-1979
TEST DATE	:	2022-09-01
ISSUE DATE	:	2022-09-09

Testing Engineer :

Peter peng

Peter peng

Authorized Signatory :

Jim he

Jim he



**DIRECTORY**

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Change History		
Issue	Date	Reason
1.0	2022-09-09	First edition



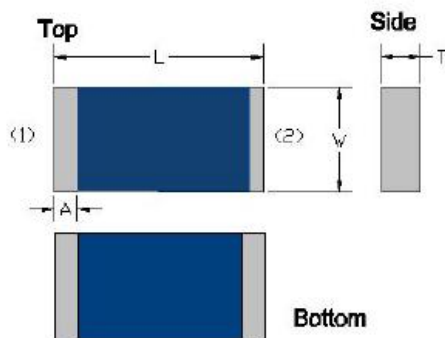
1. Technical Information

Note: Provide by manufacturer.

1.1. Equipment Under Test (EUT) Description

Frequency Range(MHZ)	2400-2500
Impedance(Ω)	50 ± 10
Gain(dBi)	0
ReTurnLoss(dB)	≤ -10
VSWR	≤ 1.92
Polarization	omni

1.2. Equipment Under Test (EUT) Specification



Dimension (mm)	
L	3.15 ± 0.15
W	1.55 ± 0.15
T	0.50 ± 0.10
A	0.35 ± 0.10



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedures for Antennas

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	15 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

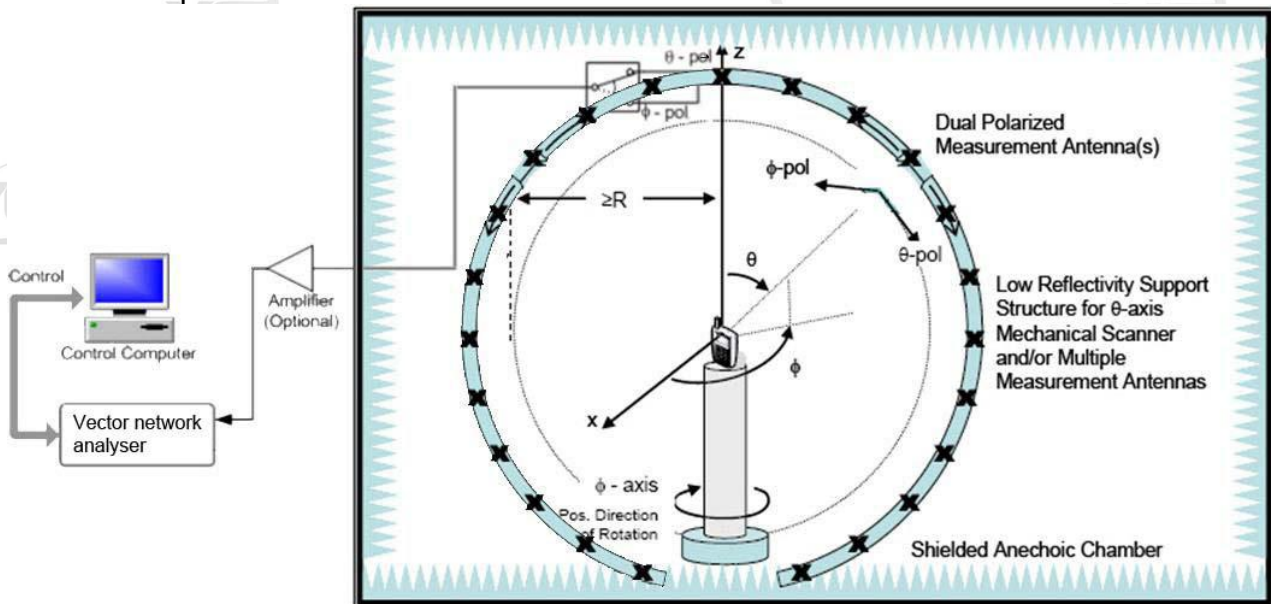
2.3.1. Gain

Frequency (MHz)	Efficiency (%)	Gain (dBi)
频率	效率	增益
2400	9.4125	-3.05
2410	10.3365	-2.05
2420	11.2108	-3.65
2430	11.9845	-0.12
2440	13.5167	-1.02
2450	15.3369	0
2460	16.0597	-0.74
2470	17.1025	-0.11
2480	17.3316	-2.45
2490	18.2557	-1.21
2500	19.1582	-1.36



Annex A Photographs

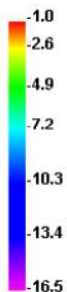
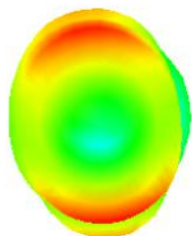
1. Test Setup



Annex B Figures

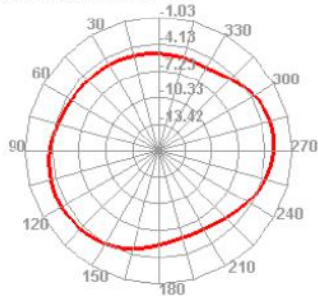
3D 增益模式 3D Gain Pattern (2400 MHz)

2400.000MHz

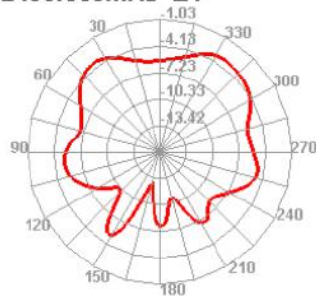


2D 增益模式 2D Gain Pattern (2400 MHz)

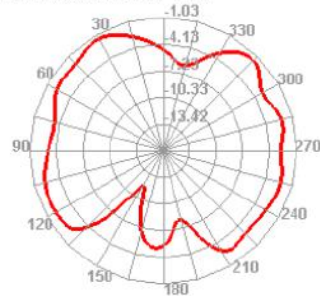
2400.000MHz H



2400.000MHz E1

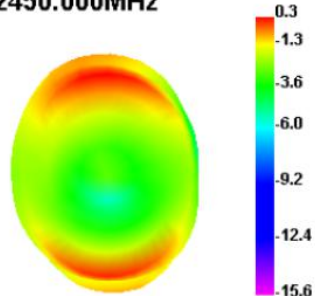


2400.000MHz E2



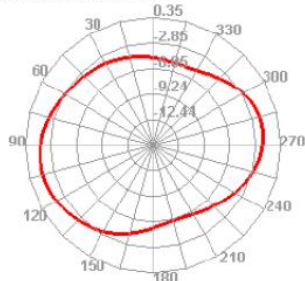
3D 增益模式 3D Gain Pattern (2450 MHz)

2450.000MHz

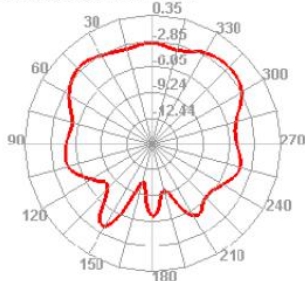


2D 增益模式 2D Gain Pattern (2450 MHz)

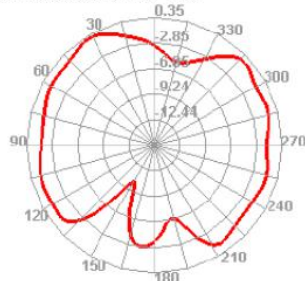
2450.000MHz H



2450.000MHz E1

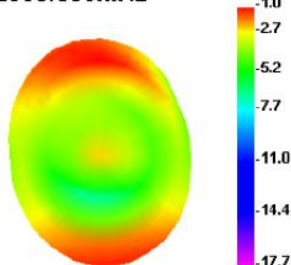


2450.000MHz E2



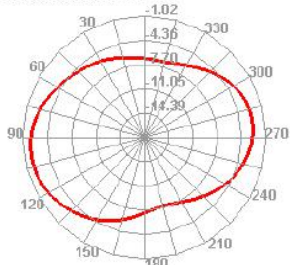
3D 增益模式 3D Gain Pattern (2500 MHz)

2500.000MHz

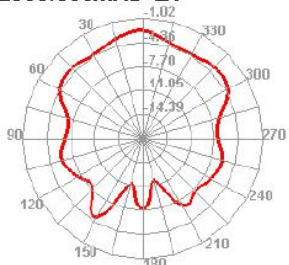


2D 增益模式 2D Gain Pattern (2500 MHz)

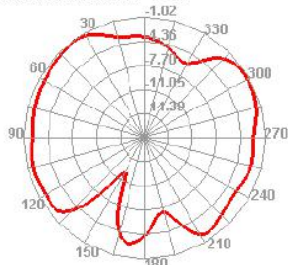
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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