



上海杰盛康通信工程有限公司

Shanghai Jesoncom Communication Engineering Co., Ltd

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SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT: Centerm MINI PC

CUSTOMER P.N. : _____

PRODUCT NAME. : WIFI Antenna

MODEL NO. : 3V138A

SPECIFICATION : _____

VERSION	DATE	REVISION DESCRIPTION
T:A	2025-03-25	newly added
T:B	2025-07-10	Update Chinese and English versions

SUPPLIER AUTHORIZED SIGNATURE		
PREPARED	CHECKED	APPROVED
XUHAIJUN		

CUSTOMER AUTHORIZED SIGNATURE			
Project		Quality	

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with your approved signature. // 客户确认签字，盖章后请回传一份承认书给我司。

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1 DEFINITION

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 Test equipment

Can be increased or decreased according to actual situation

vector network analyzer

Comprehensive test instrument

GTS darkroom

3 Applicable frequency band

Mark the applicable frequency bands with other colors.

Standard format	Frequency band
WIFI (2.4G)/BT	2402MHz~2480MHz
WIFI (5G)	5150MHz~5850MHz

4 Basic testing items

4.1 Standing wave ratio diagram

4.2 Smith impedance diagram

4.3 Radiation pattern

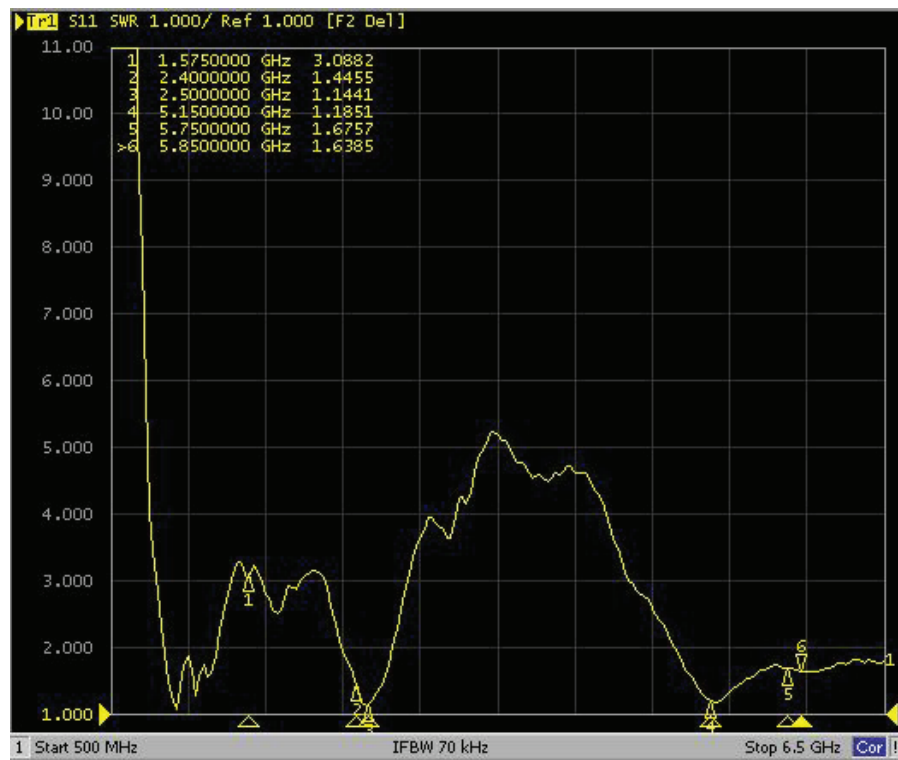
4.4 Gain and efficiency

5 Test indicators and data charts

5.1 standing-wave ratio

5.1.1 Standing wave ratio diagram

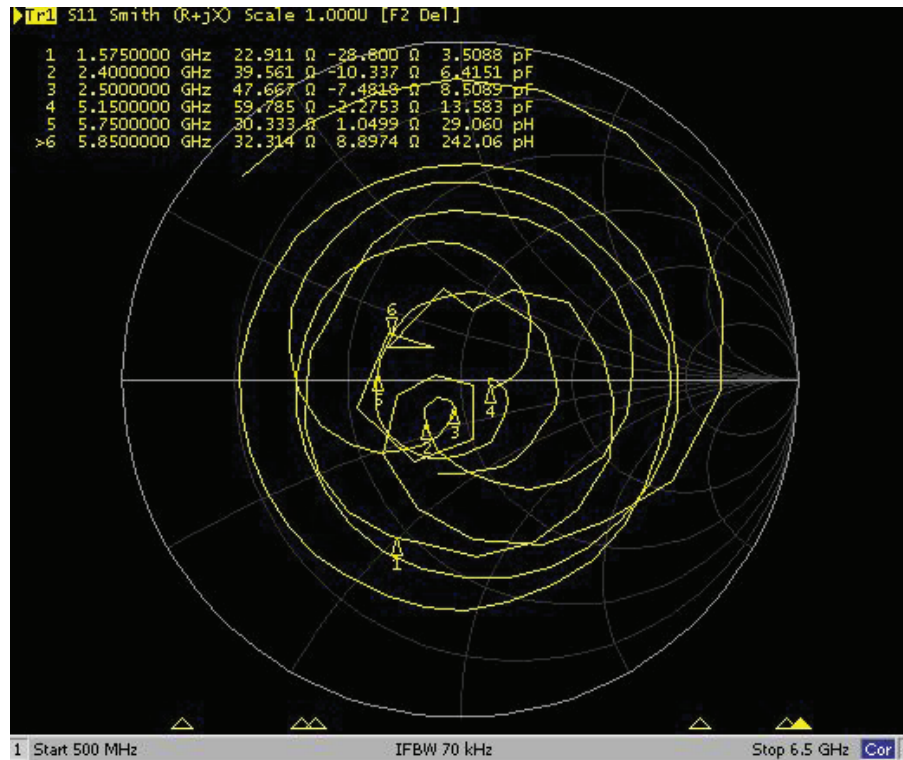
5.1.2

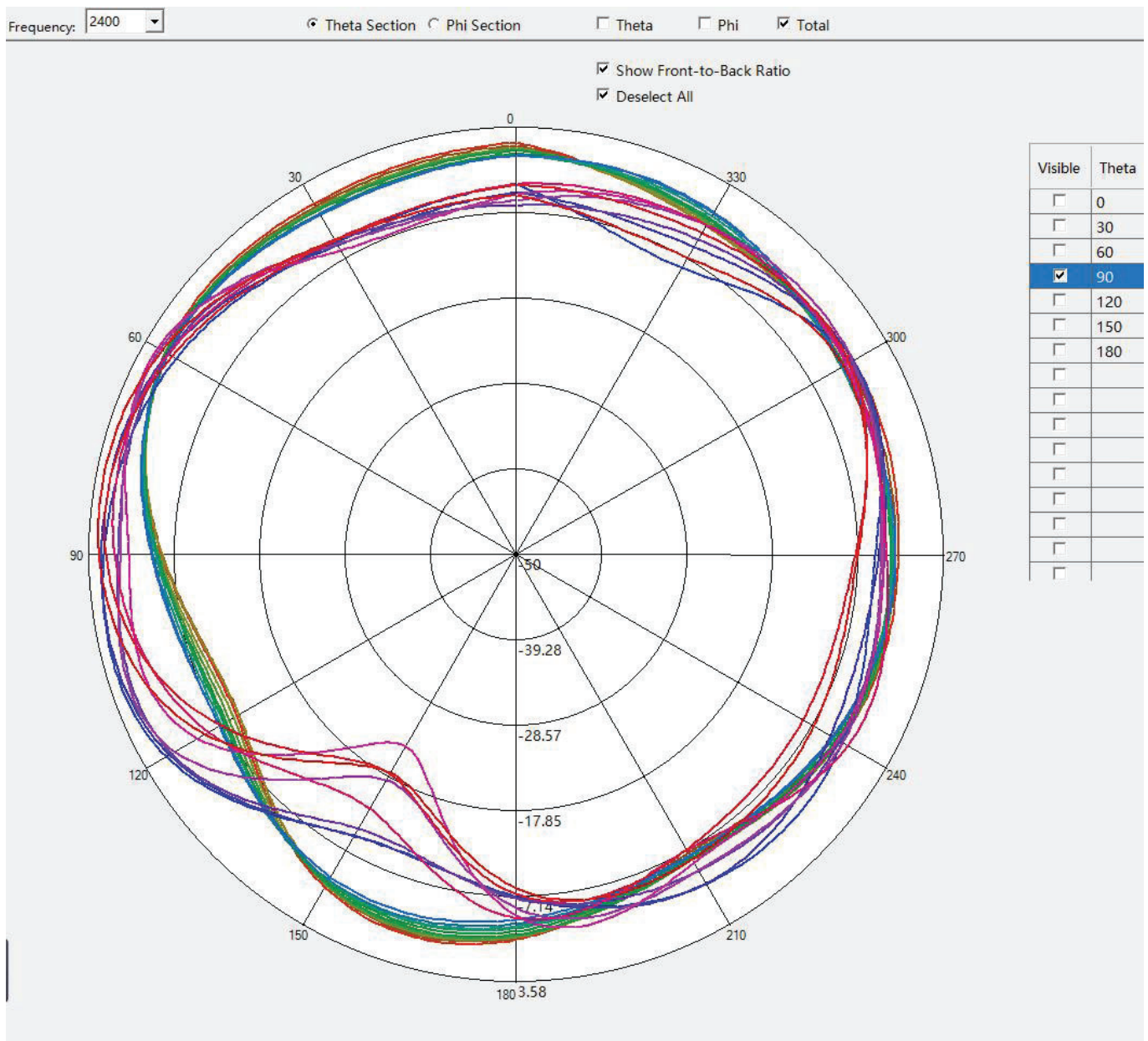


5.1.3 Standing wave ratio data

Freq/MHz	2400	2500	5150	5750	5850
VSWR	1.4	1.1	1.1	1.6	1.6

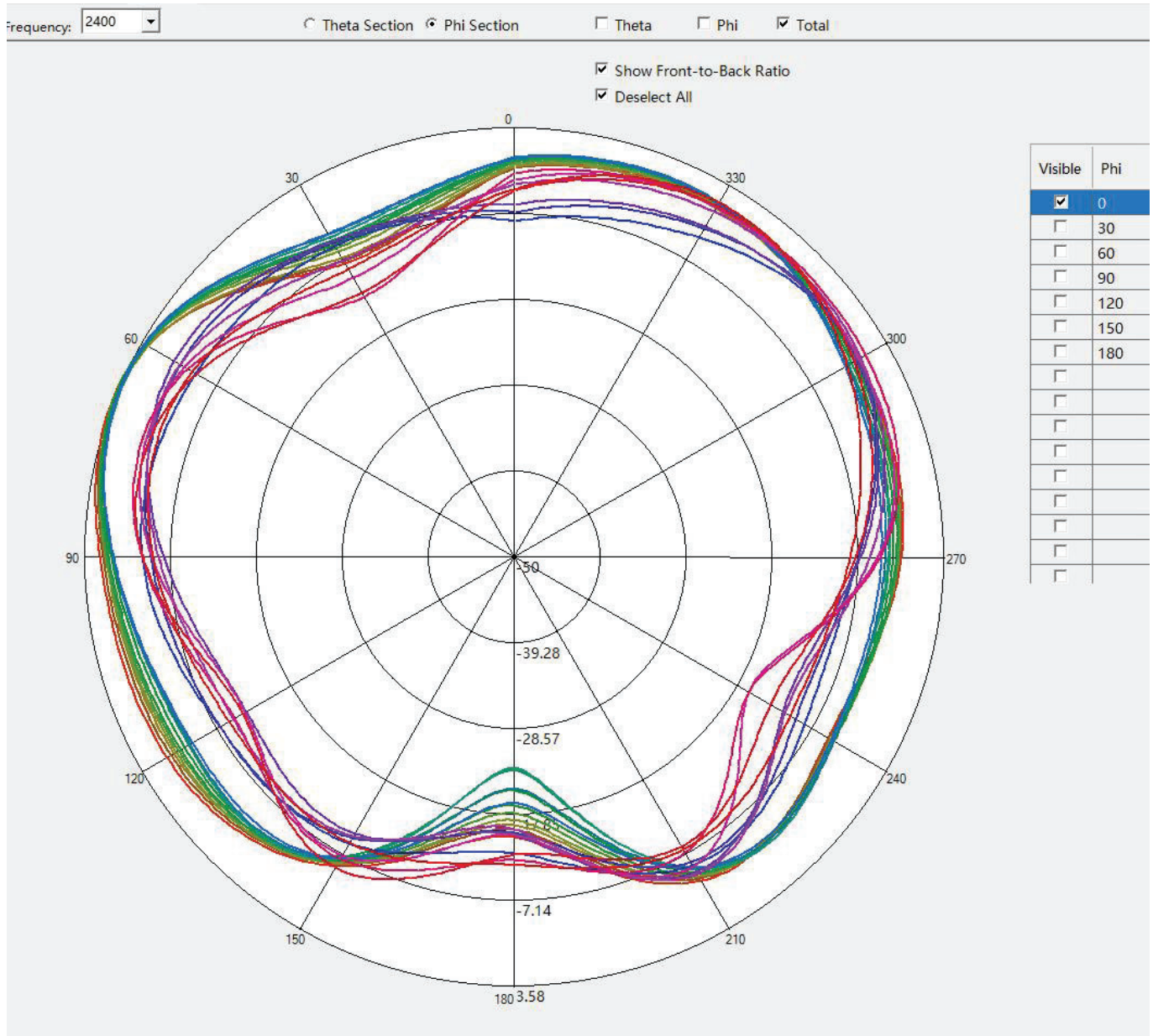
5.2 Smith impedance circle diagram

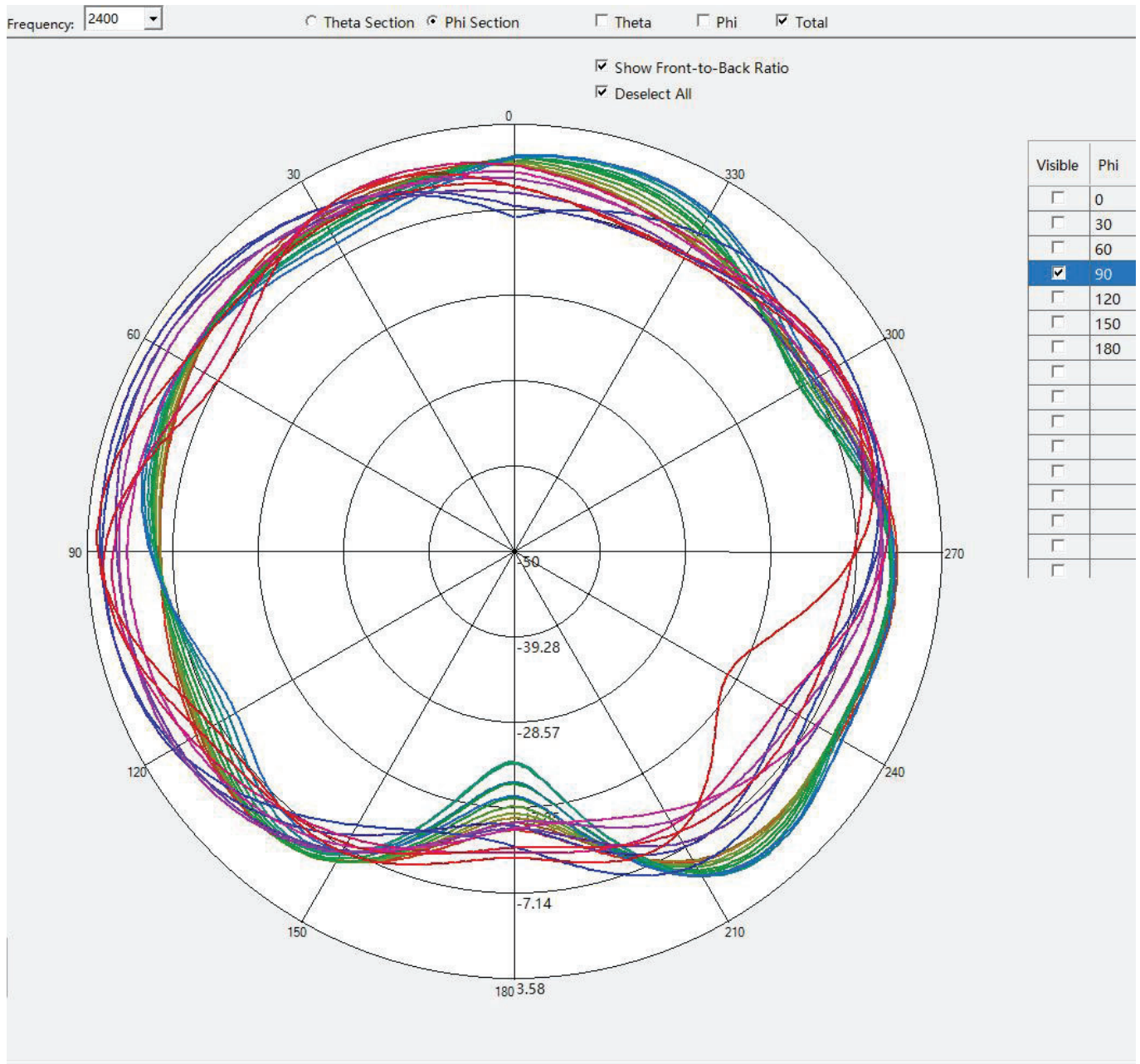




5.3.2E-plane

E1

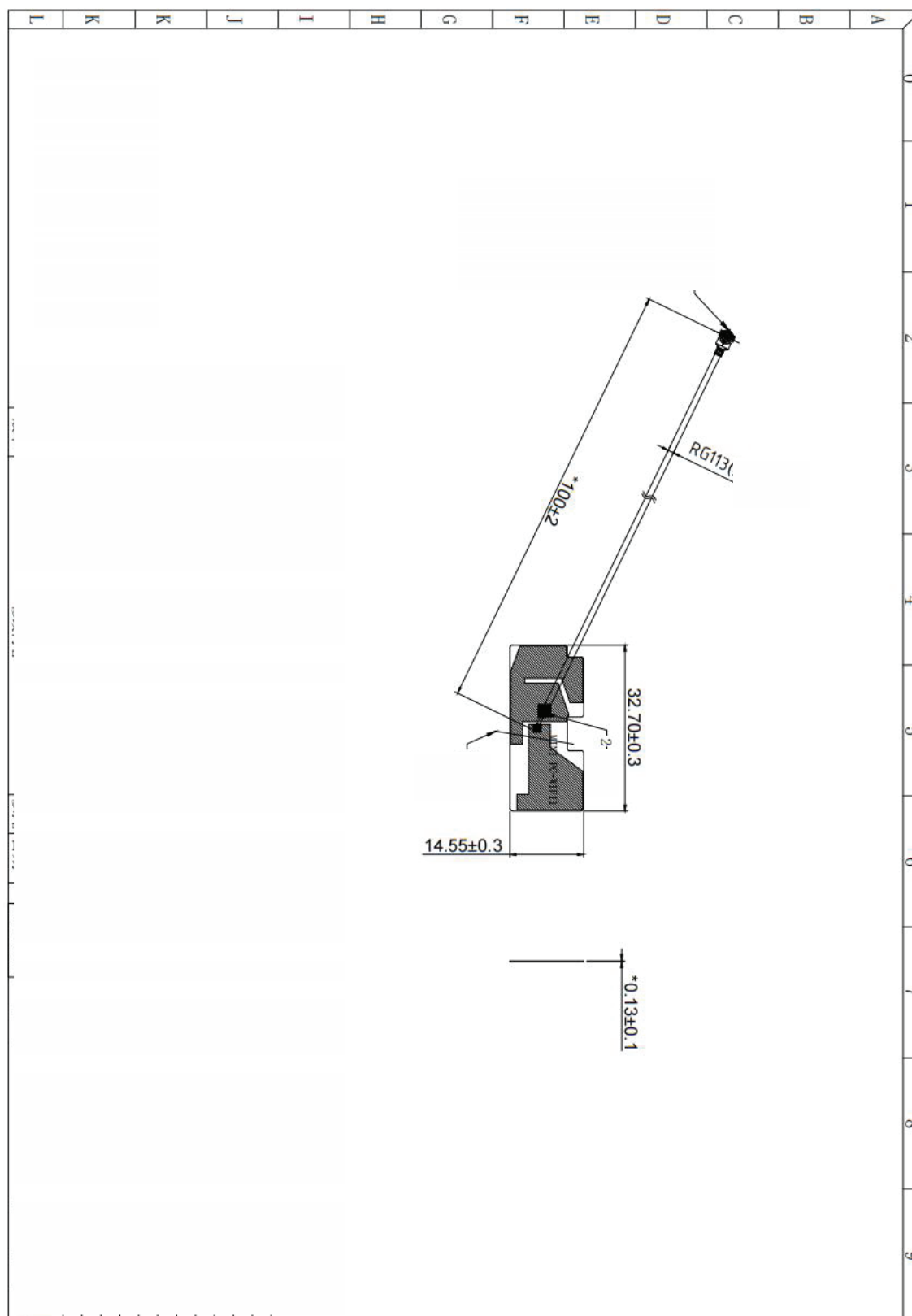




5.4 Gain and efficiency

Freq (MHZ)	Eff (%)	GAIN(dBi)		Freq (MHZ)	Eff (%)	GAIN(dBi)
2402	65.07	4.66		5150	57.02	4.55
2410	61.29	4.68		5250	59.38	5.28
2420	61.42	4.98		5350	54.71	5.02
2430	63.69	5.28		5450	59.36	5.08
2440	64.07	5.47		5550	53.30	4.36
2450	63.86	5.67		5650	59.79	5.04
2460	60.55	5.51		5750	58.94	4.95
2470	58.02	5.45		5850	56.98	3.89
2480	58.42	5.81				

6 Antenna Outline Drawing



7 Antenna Installation Guide

7.1 Antenna installation and feeder routing instructions

