

SWE045

PN: SW20303EB56



Features:

- Antenna for 2400~2500MHz,5100~7125MHz
- High gain
- Impedance 50 Ohm

Applications:

- Remote monitoring
- Network Devices
- Gateway
- Router/CPE
- Others

1. Electrical Specification	3
2. Mechanical and Environmental Specifications	3
3. Antenna Parameters	4
4. Antenna Drawing	7
5. Packing	8
Changelog	9

Sunnyway reserves the right to change specifications and product descriptions.

Sunnyway reserves all rights to this document and the information contained herein. reproduction, use or disclosure to third parties without express permission is strictly prohibited.

1. Electrical Specification

Standards	2.4G WiFi	5G WiFi/WIFI6/6E
Frequency range (MHz)	2400~2500	5100~7125
Peak Gain (dBi)	2.4~3.3	4.8~6.6
Average Gain (dB)	-2.9~-2.0	-2.5~-0.6
VSWR	< 2.0	< 3.0
Return Loss	< -10.0	< -6.0
Efficiency (%)	51.3~62.7%	56.3~86.9%
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

2. Mechanical and Environmental Specifications

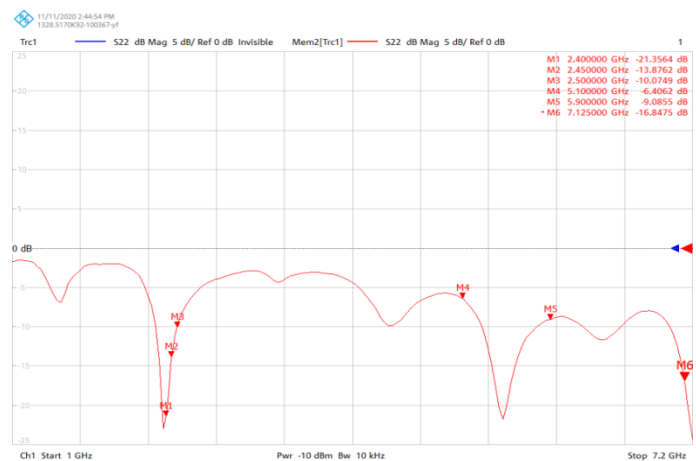
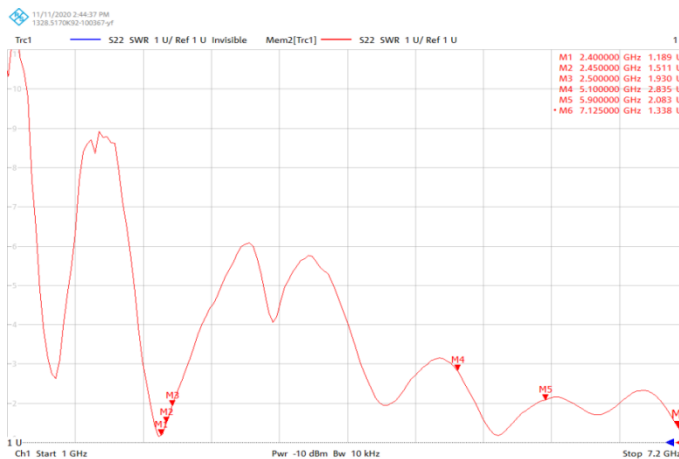
Mounting Type	Connector Mount
Connector Type	SMA-M
Antenna size(mm)	$\Phi 10 \times 109$ (H)
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C
Weight(g)	About8-9g

3. Antenna Parameters

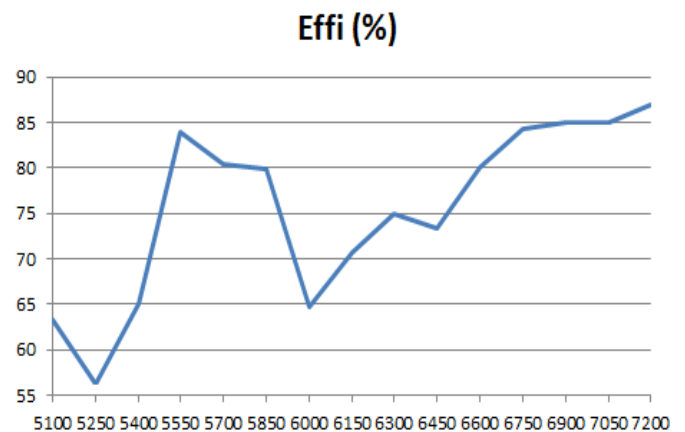
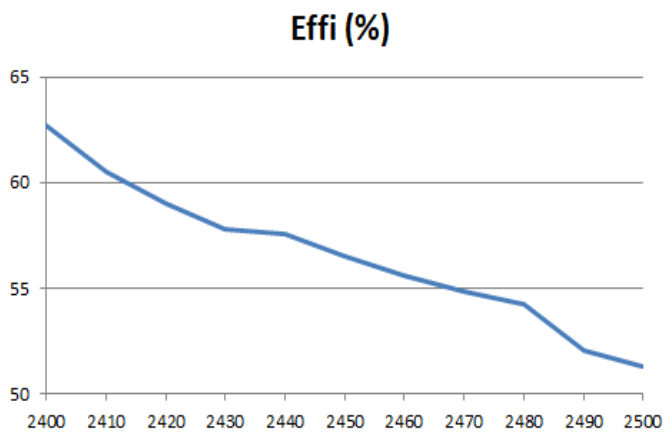
3.1 General Data

FRE (MHz)	2400	2450	2500	5100	5900	7125
VSWR	1.2	1.5	1.9	2.8	2.1	1.3
Return Loss	-21.4	-13.9	-10.1	-6.4	-9.1	-16.8
Eff (%)	62.7	56.5	51.3	63.3	79.5	85.0
Average Gain(dB)	-2.0	-2.5	-2.9	-2.0	-1	-0.7

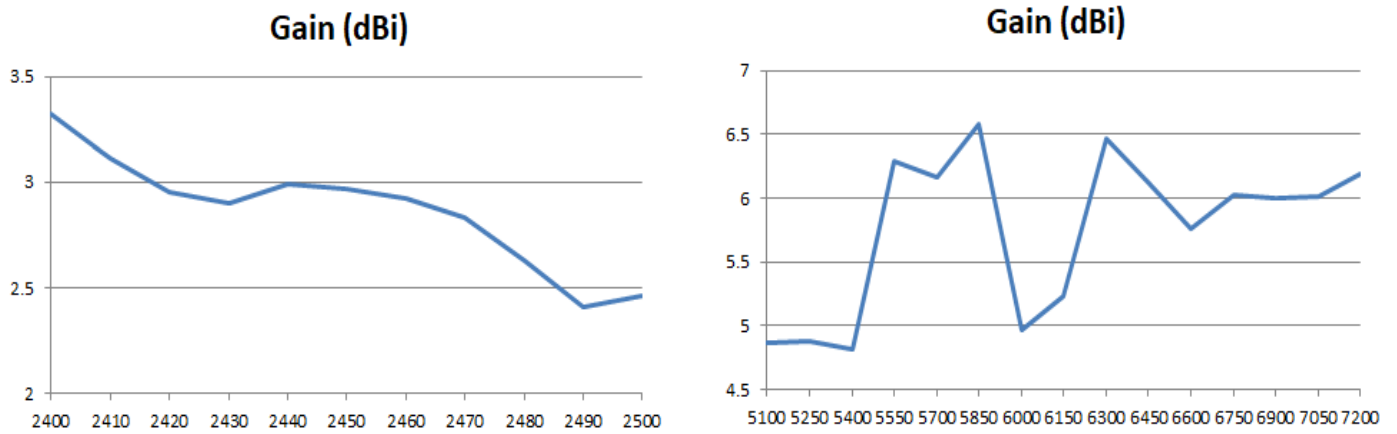
3.2 VSWR and Return Loss



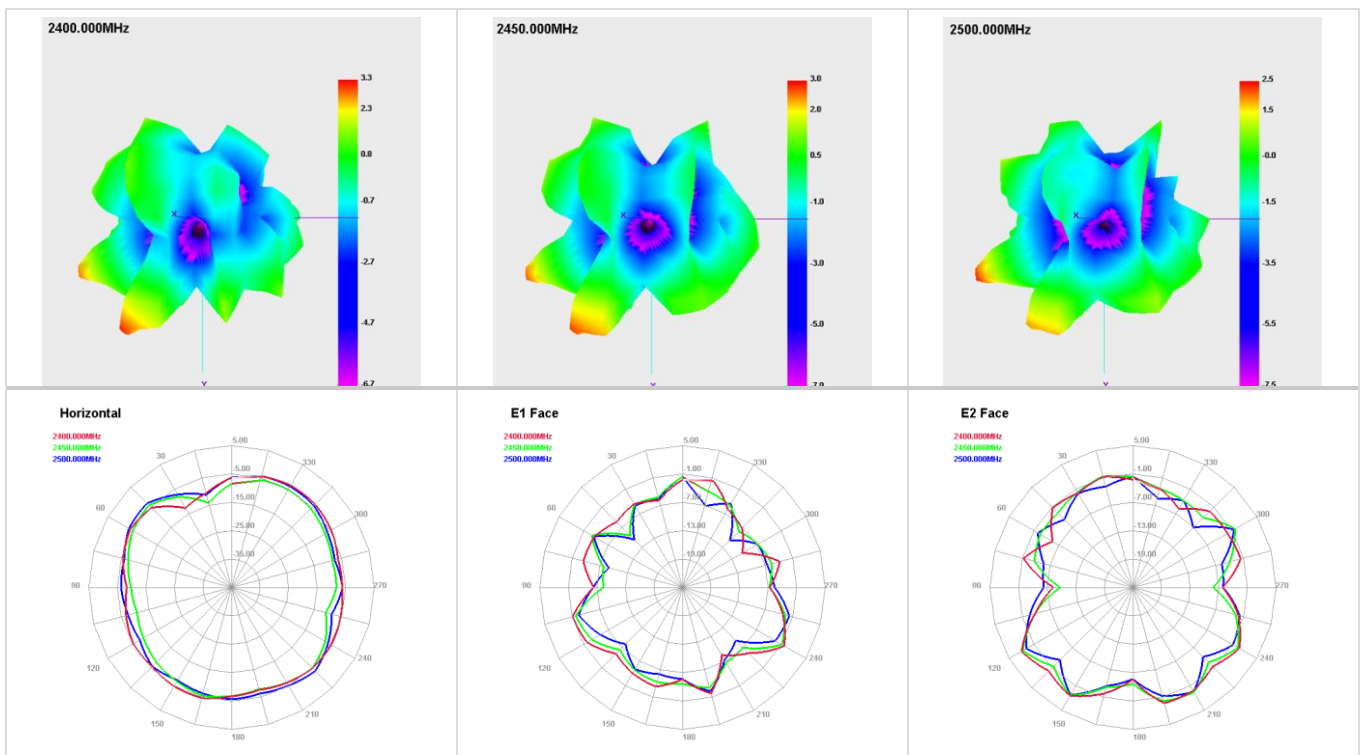
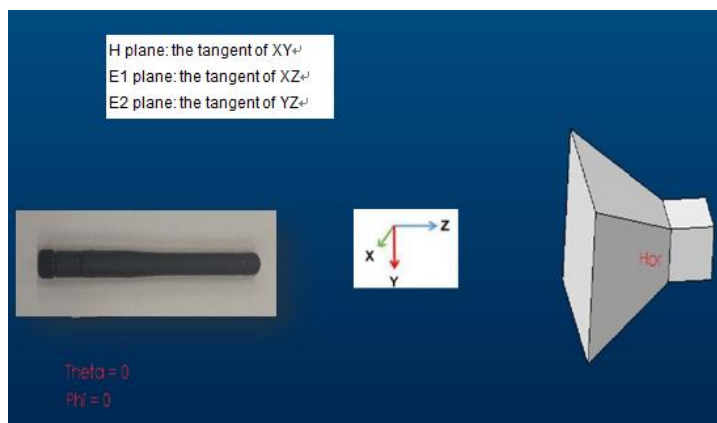
3.3 Efficiency

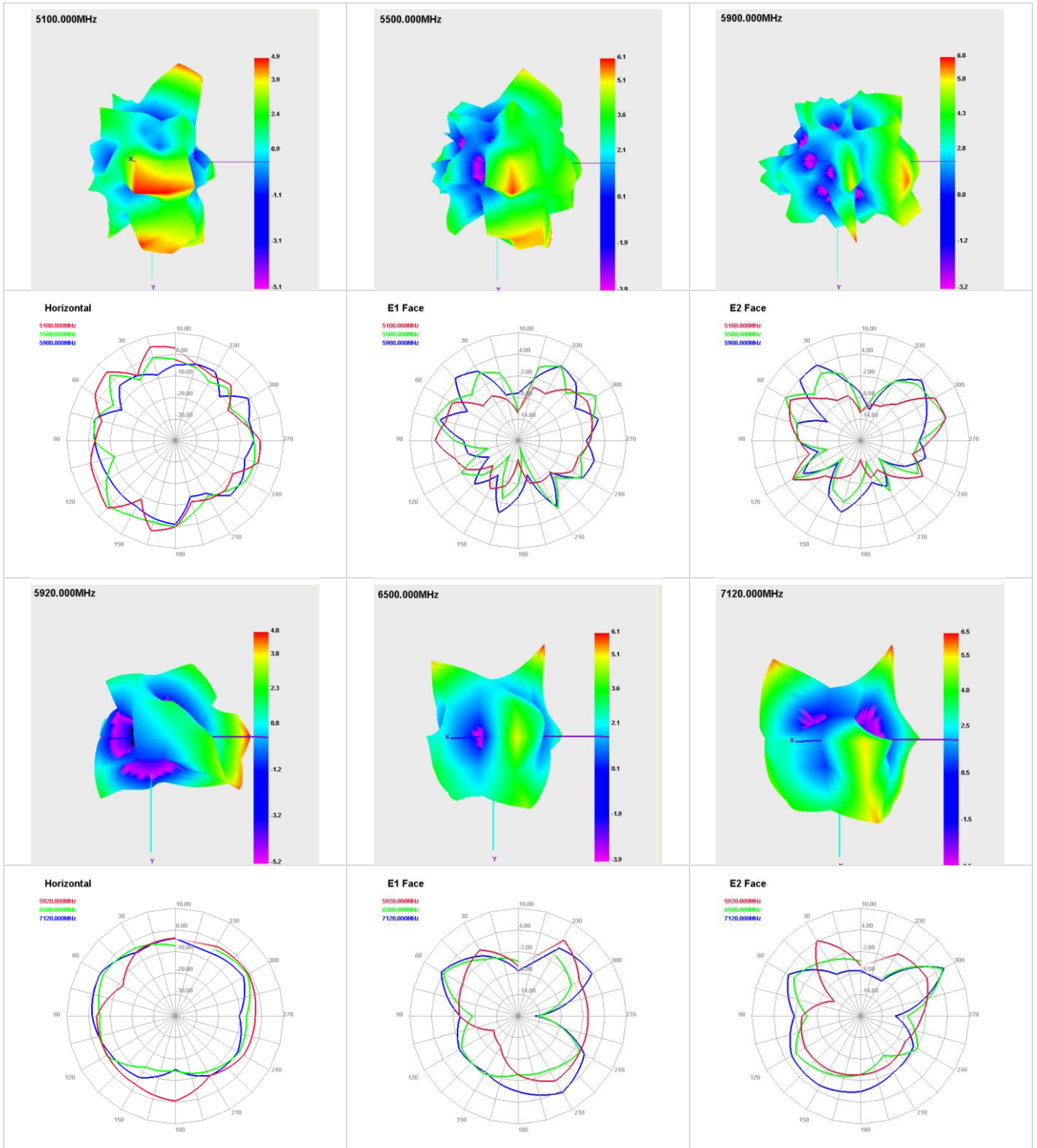


3.4 Gain



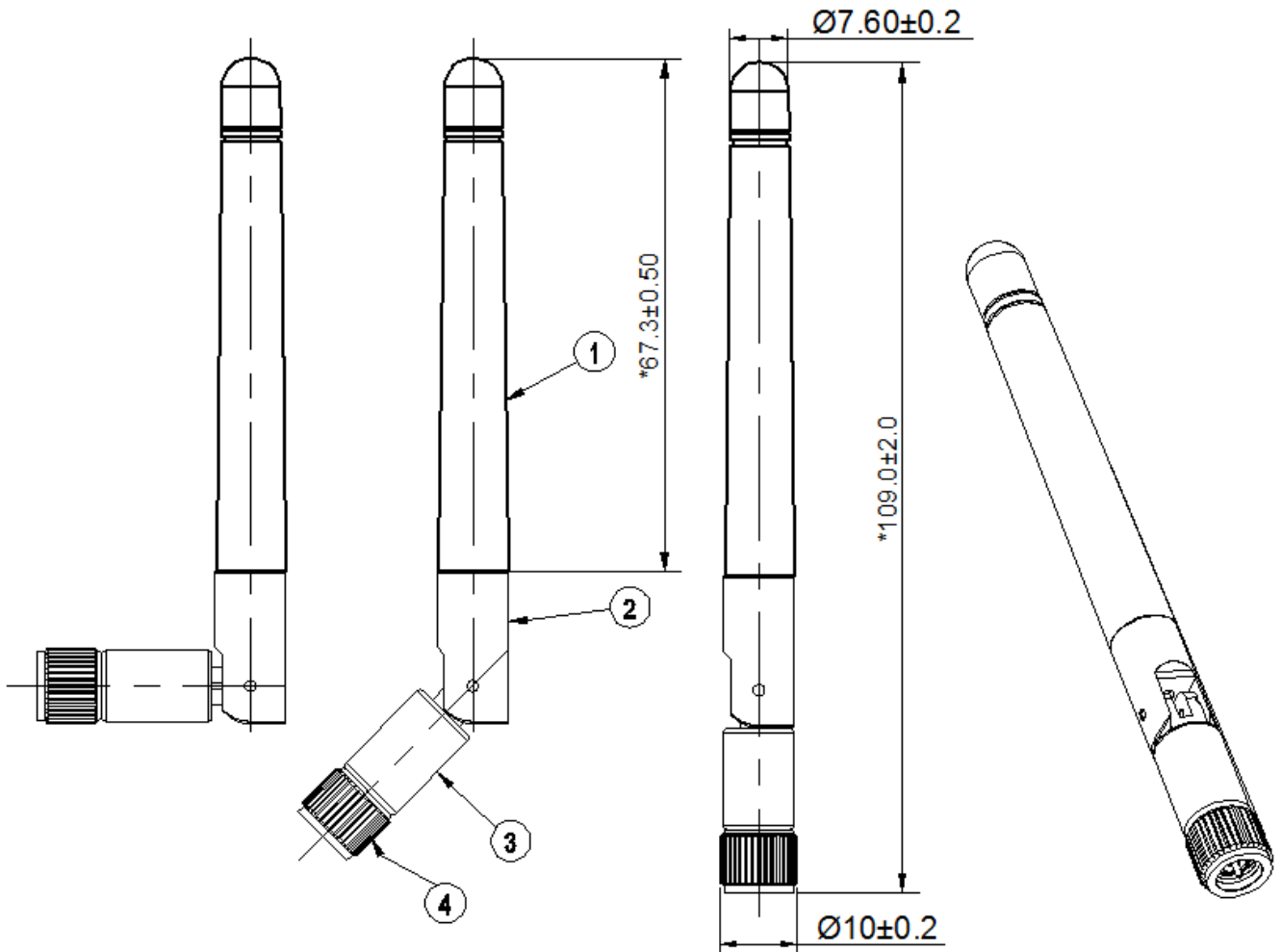
3.5 Directional Pattern





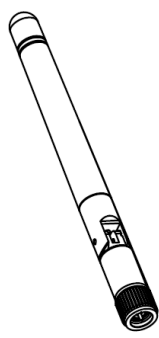
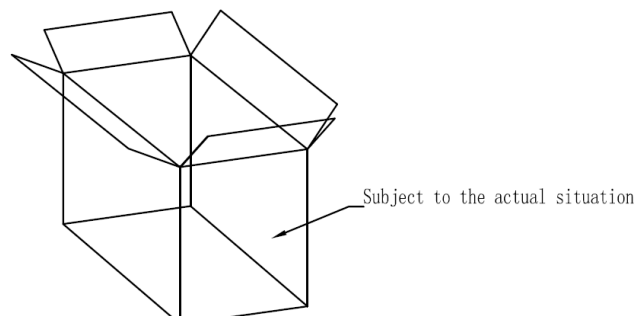
4. Antenna Drawing

Unit: mm



Series	Component name	Specification	Color	Quantity
1	noumenon	ABS	black	1
2	Upper firmware	ABS	black	1
3	Lower Firmware	ABS	black	1
4	SMA	SMA-M	black	1

5. Packing

Sunnyway Technology (China) Co. Ltd.						
Product Packing Practice Specification						
Clients:		Packing item name: SWE045		Packaging symbol:SYC-BZ-001		Package version: TEST:A
Package detail	Emblem	Product name	Rules	Dosage	package load yield product diagram Note	
	PE	Seal Pockets		50/1		
	SYC-BZ-01	Paper case		Let the facts speak for themselves		
make industry step Sudden	1. Prepare the necessary package in a favorable position for work. 2. According to SYC-BZ01 package rules, use paper box(SYC-01), seal pocket(PE)Packaging 50pcs 3. Subject to the actual situation, seal the box with transparent tape				notes meaning matter term	1. Employees must wear gloves to operate. 2. Pay attention to the number of containers, not more, less equipment. The final number box must be indicated. 3. Paper boxes should not be stacked too high to prevent heavy pressure.
diagram Note say bright						
Nucleus.		Trial.		Production		Date
				chen xiao pin		20120. 11. 19

Changelog for the datasheet			
Revision	Date	Author:	Notes:
-	2019-06-11	Kevin LV	Initial Datasheet Release
V0	2025-06-13	Kevin LV	Update text formatting, titles, fonts, etc