

APPROVAL SHEET

Dipole ANTENNA

2.4 GHz Single Band Working Frequency

Halogens Free Product

P/N: RFDPA870900SBAB8G1

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

Version	Date	Description	Author
V01	2022 Dec.	New Release	CXLIU

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Gain	2 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω

*Note 1. Central Frequency should be defined after customers' application approval.

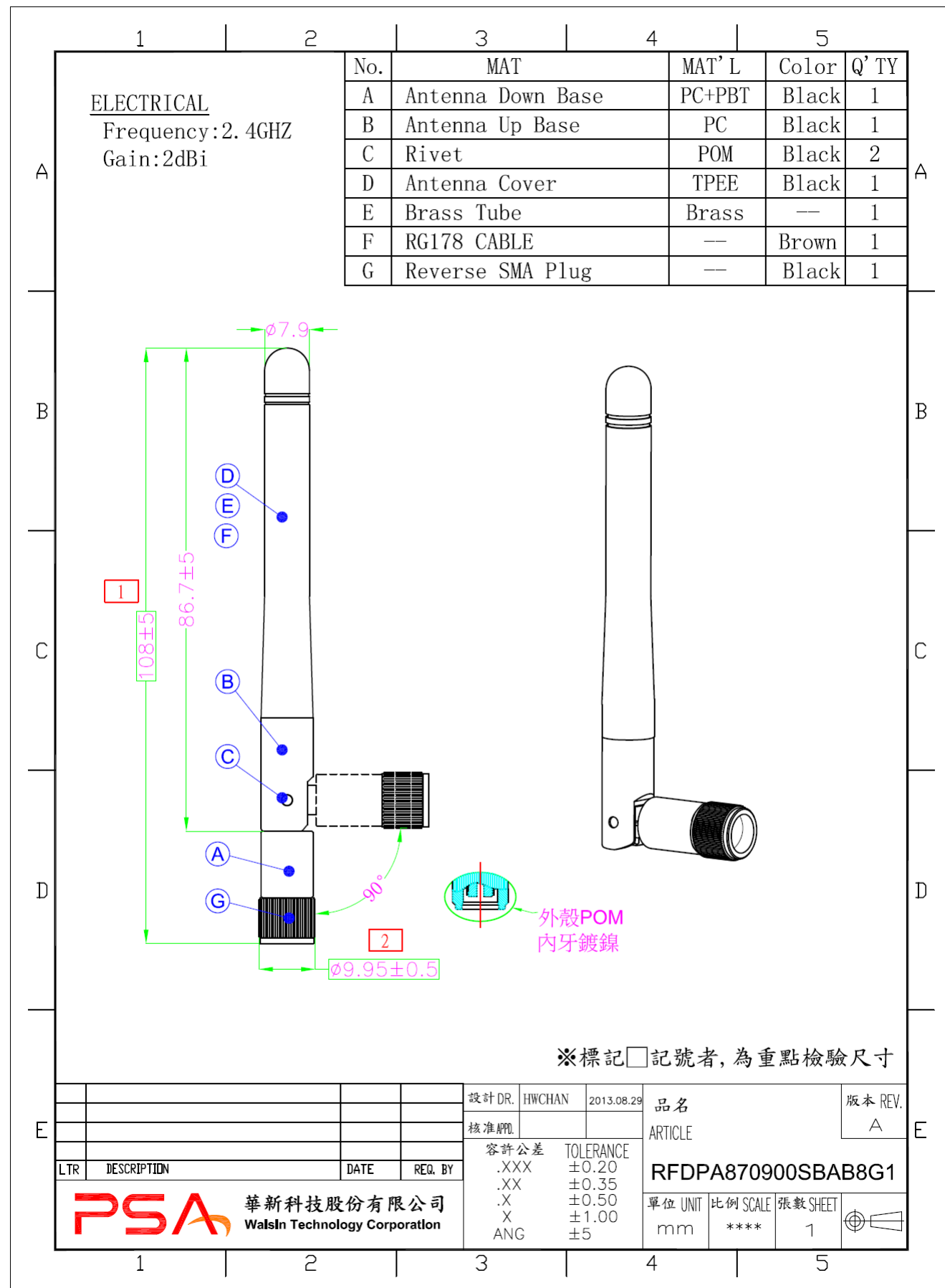
MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass

ORDERING RULE

RF	DPA	8709	00	S	B	A	B	8	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 8709 Length 86.7mm, Width 9.95mm	2 digits for cable length e.g.: 00 None Cable	A: N C: MCX D: IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U: MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T: During Test X: Pile Run	0: None 1: ∅0.81 3: ∅1.13 6: RG316 7: ∅1.37 8: RG178	01~99 series number

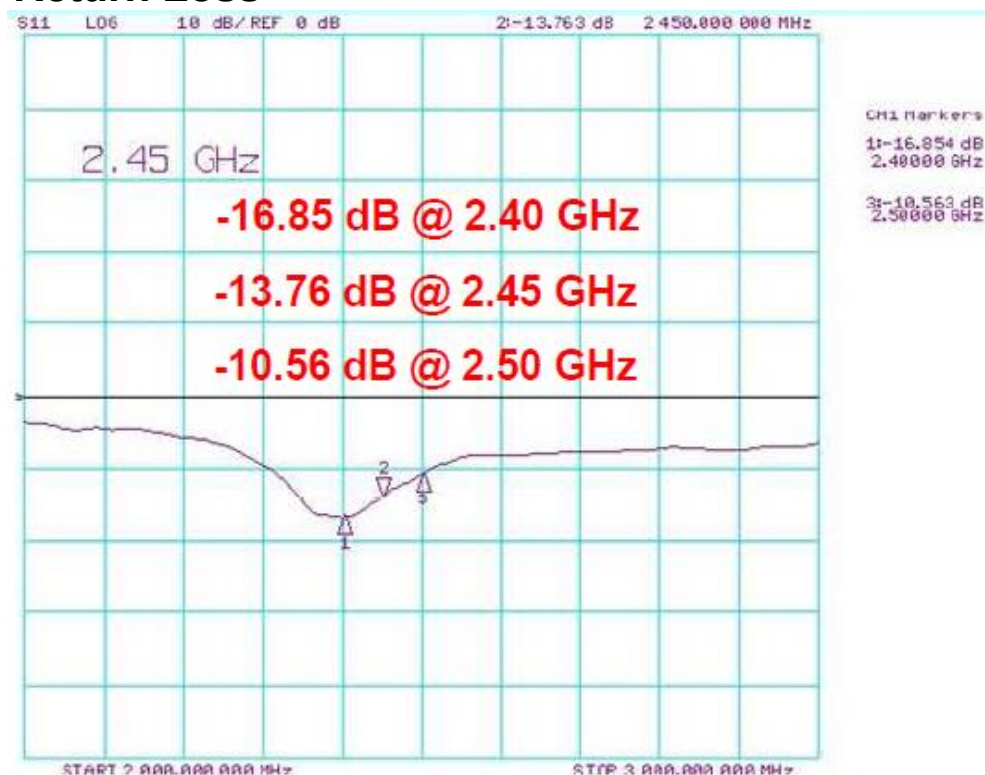
DIMENSIONS



Test Report

ELECTRICAL CHARACTERISTICS

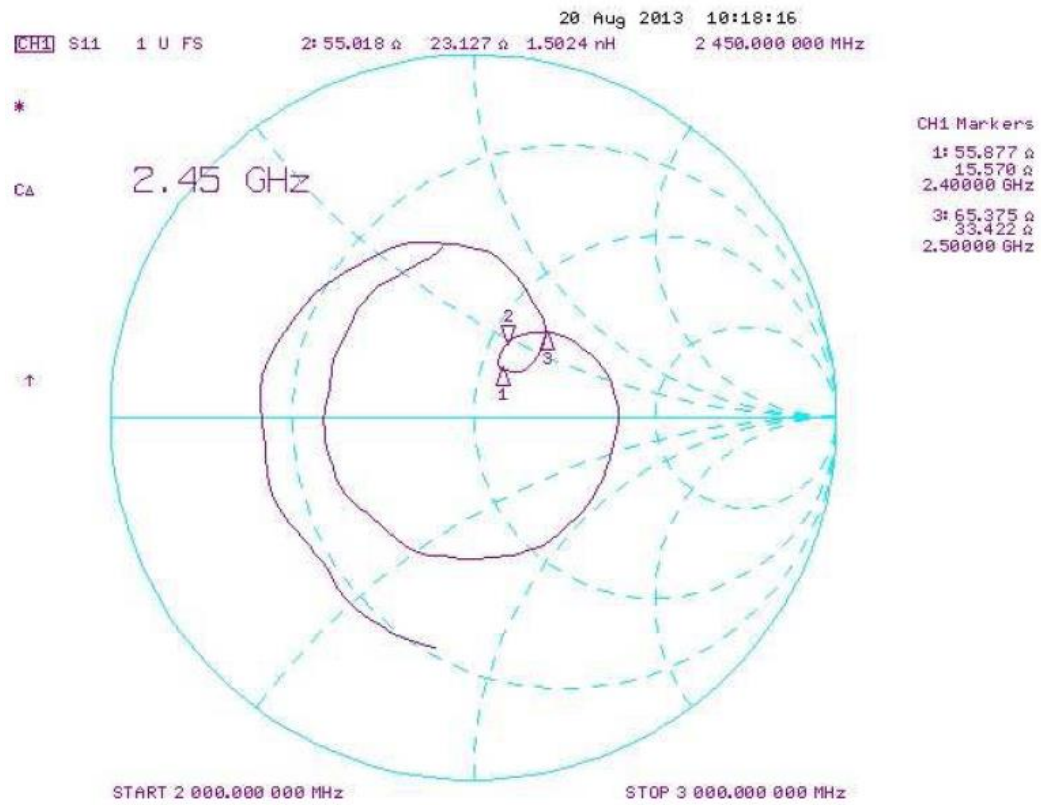
Return Loss



VSWR



Smith Chart



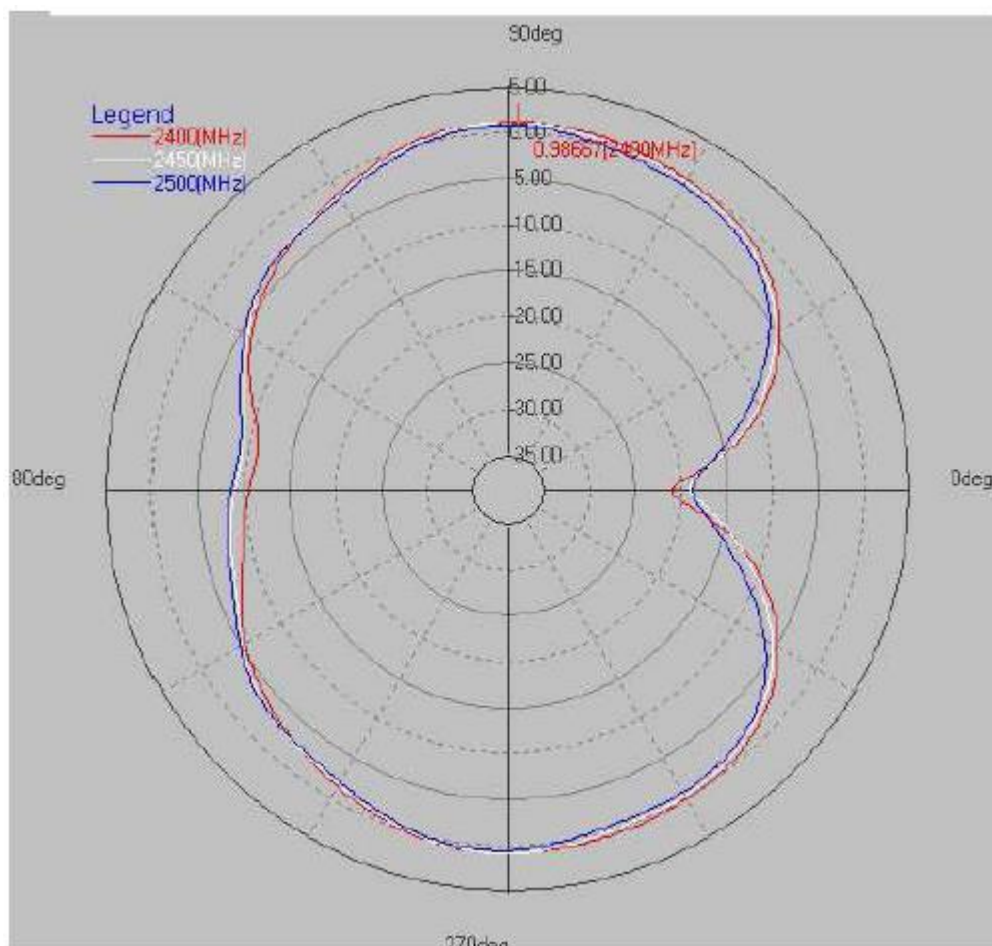
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



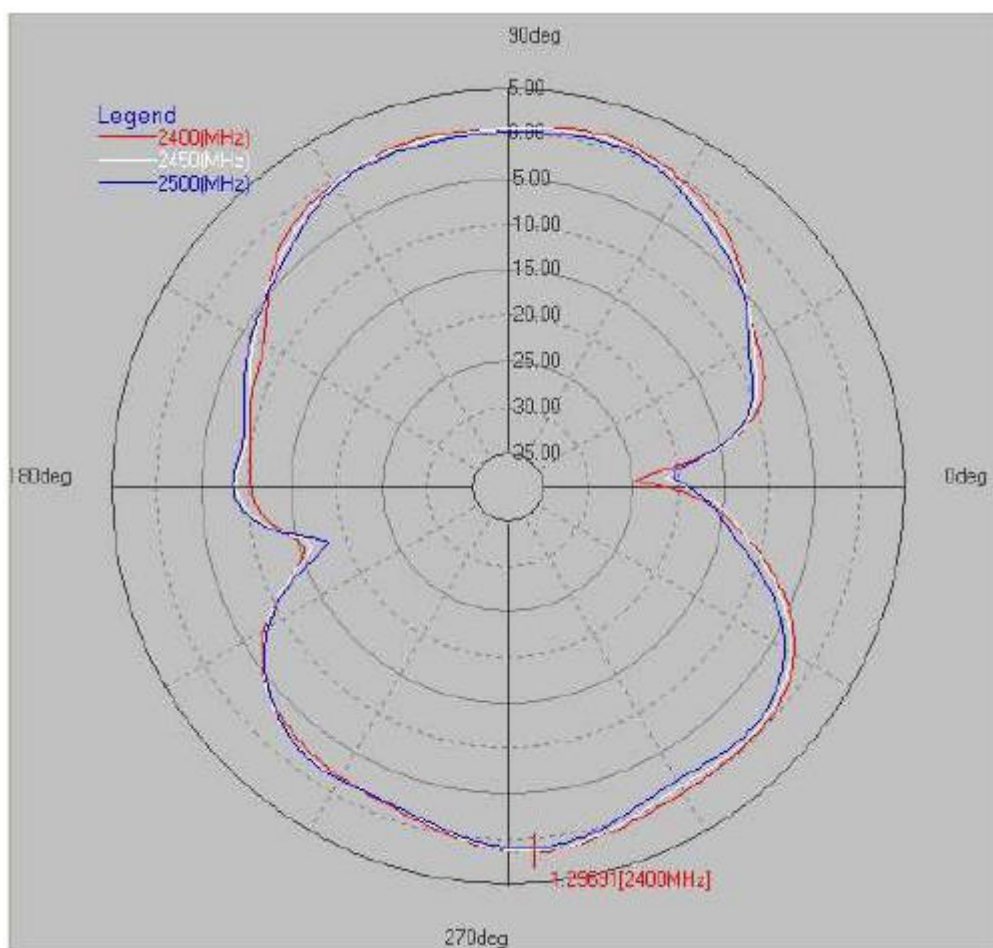
Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	1.89	-21.17	-2.25
2.45	1.92	-19.12	-2.41
2.50	1.81	-18.81	-2.74

2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



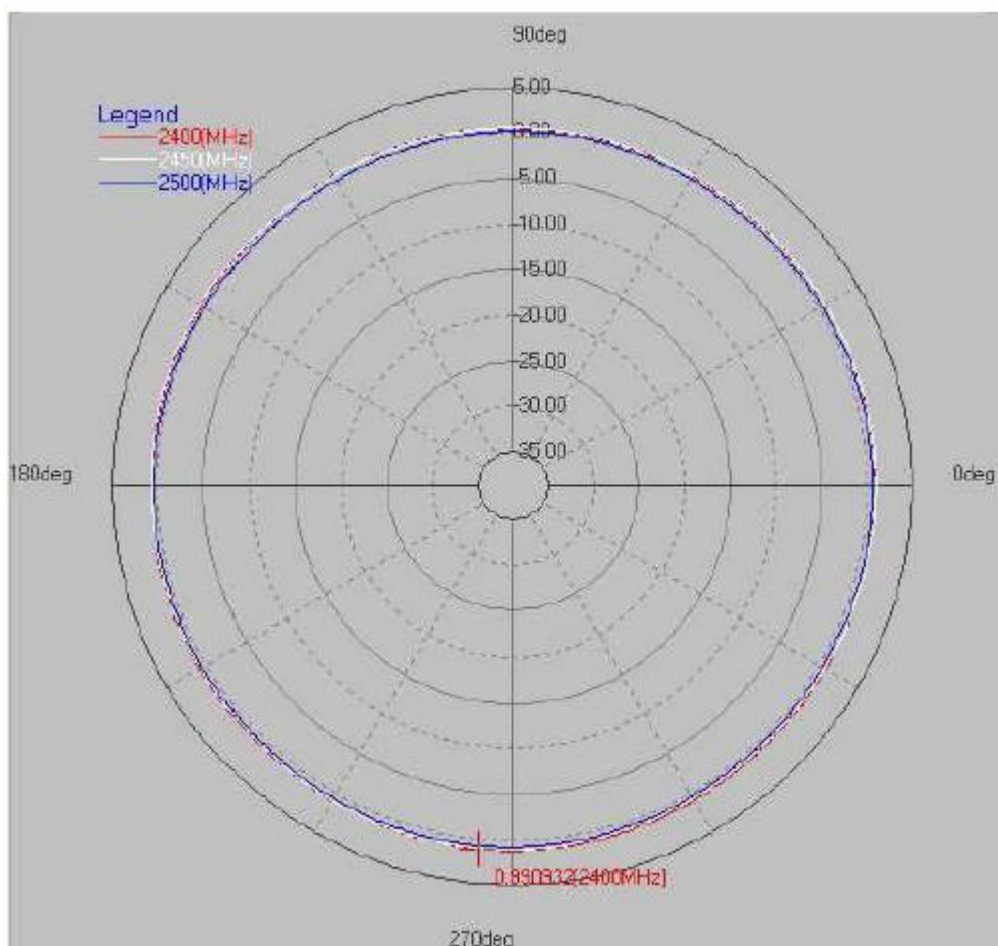
Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	2.04	-24.68	-2.25
2.45	2.00	-21.44	-2.47
2.50	1.81	-20.59	-2.84

2400~2500 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	1.89	0.35	0.70
2.45	1.90	0.36	0.68
2.50	1.80	-0.16	0.33

Package

蘇州華科電子有限公司	
RFDPA870900SBAB8G1 Production Specifications	Page : 1 of 1
	No. : PDS070022560 Version : A0
Date of Revision : 2014/10/10	
Packaging Illustration	
Pic.1  10pcs/Small PE bag	
Pic.2 	
Pic.3 	
Product Packaging Standard: 1. Put 10pcs into a small PE bag and sealed. A manufactured label is stuck onto the outside of PE bag. (as Pic.1) 2. A piece of PE foam is placed into the bottom of outer carton (as Pic.2). 3. All products (as Pic.3) are put into outer carton, which contains 1,500pcs, and 1 piece of PE foam is placed upon the products. The carton is then sealed and stuck with label of manufacture.	
Example of manufactured label : The content in the picture is just an example, correct content please refer to actual shipping information.	
	
標籤注釋權屬華科電子有限公司	
核准：	何耀輝
審核：	張濤
制定：	袁蕊蕊

Supplier Information

- Supplier: Walsin Technology Corp.
- Address: No. 566-1, Kao-Shih Rd., Yang-Mei Dist., Tao-Yuan City, Taiwan R.O.C.
- Contact telephone No.: (03) 475-8711