

APPROVAL SHEET

Dipole ANTENNA 802.11 b/a Series 2.4/5.x GHz Dual Band Working Frequency Halogens Free Product P/N: RFDPA151300SBLB8G1

Customer:	友旺科技股份有限公司
Customer 's Part No. :	M30-15130-000
Approval No.:	
Issue Date:	

友旺品名敘述: ANTENNA RFDPA151300SBLB8G1 Gain 3dB/5dB 50ohm 157.5mm

Black Walsin LF

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

Version	Date	Description	Author
V01	2015	New Release	PIPI
V 01	May.	New Release	1111



ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 / 5.X GHz (Note-1)
Gain	3 dBi;5dBi
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.

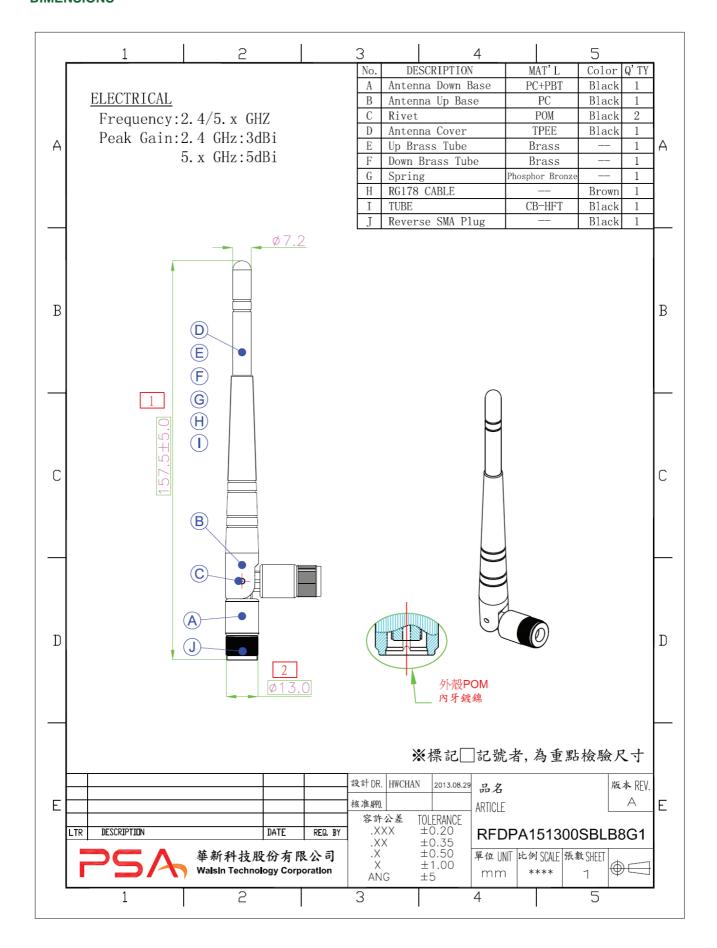
MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT

ORDERING RULE

RF	DPA	1513	00	S	В	L	В	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	e.g.: 1513 Length	2 digits for cable length	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		0:None 1:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

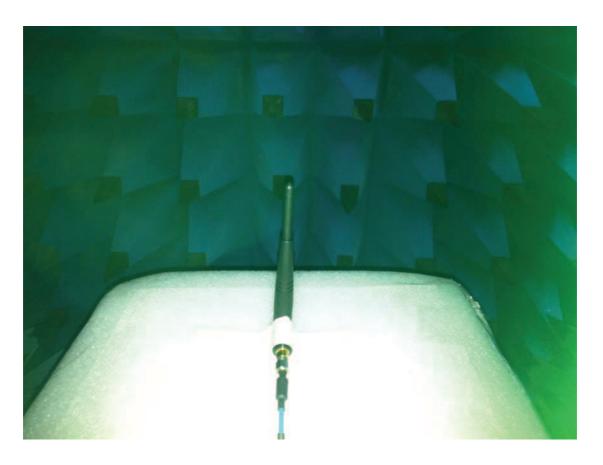
DIMENSIONS





Test Report

■Experimental Setup





ELECTRICAL CHARACTERISTICS

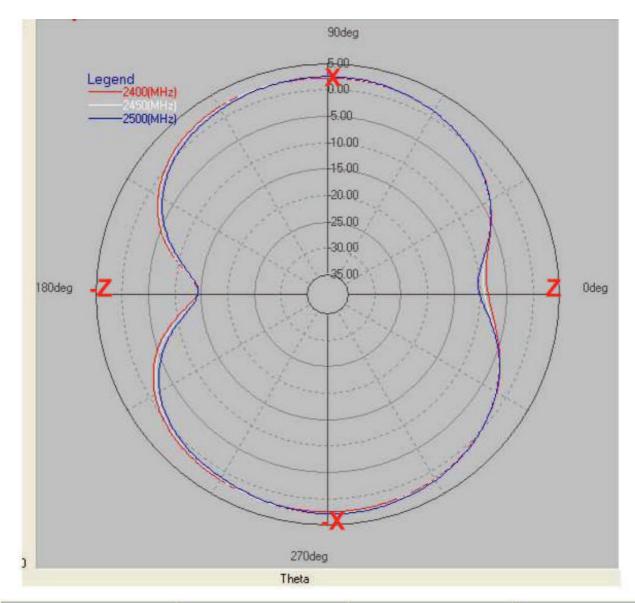
Return Loss



RADIATION PATTERN

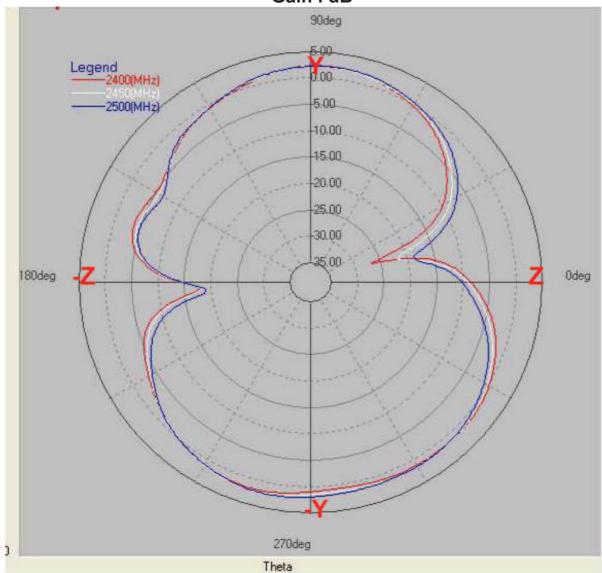
2400~2500 MHz

Phi=0.00deg Gain . dB



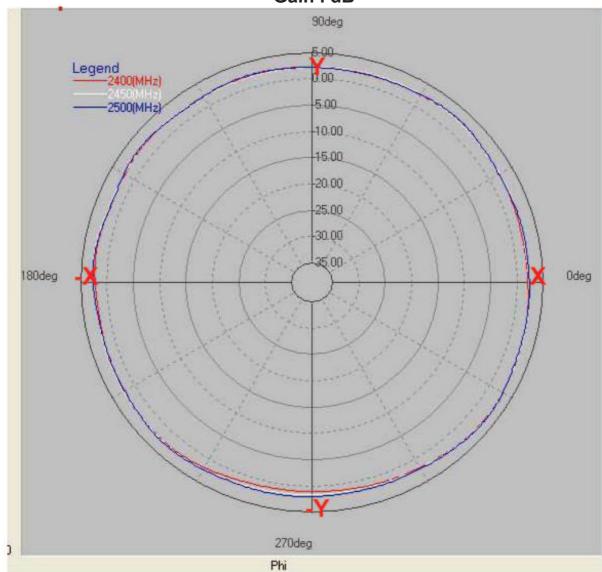
Layer	Max value	Min value	Average
2400(MHz)	2.29	-14.39	-0.06
2450(MHz)	2.58	-14.39	-0.08
2500(MHz)	2.73	-14.33	-0.19

Phi=90.00deg Gain . dB



Layer	Max value	Min value	Average
2400(MHz)	2.20	-27.55	-1.05
2450(MHz)	2.09	-21.76	-0.97
2500(MHz)	2.11	-19.03	-0.94

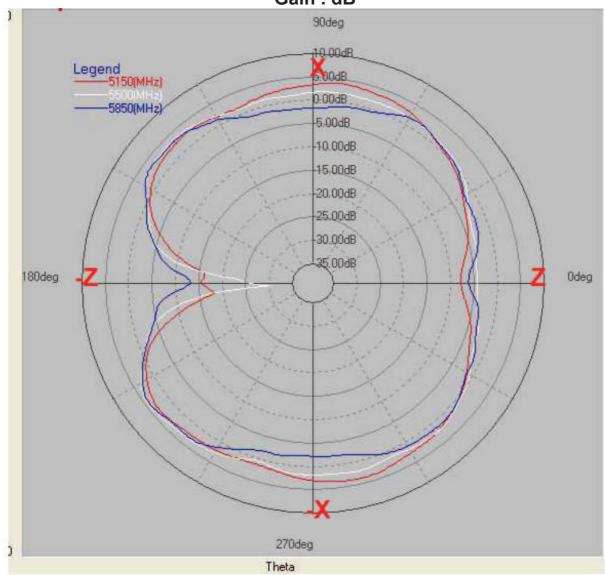
Theta=90.00deg Gain . dB



Layer	Max value	Min value	Average
2400(MHz)	3.03	0.89	2.13
2450(MHz)	3.11	1.41	2.26
2500(MHz)	3.18	1.76	2.30

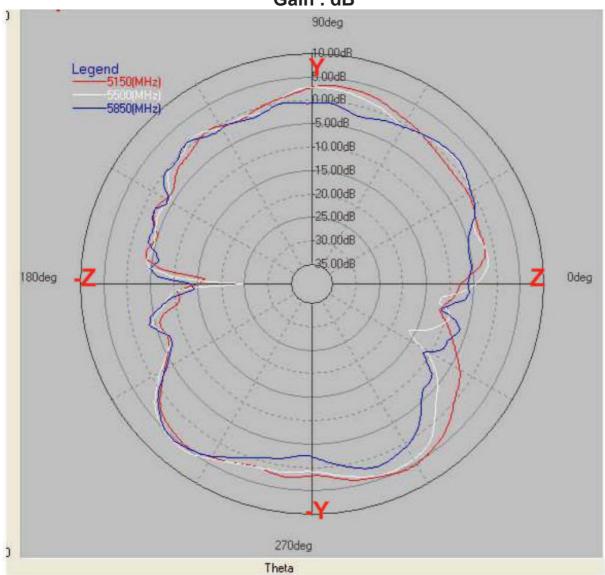
5150~5850 MHz

Phi=0.00deg Gain . dB



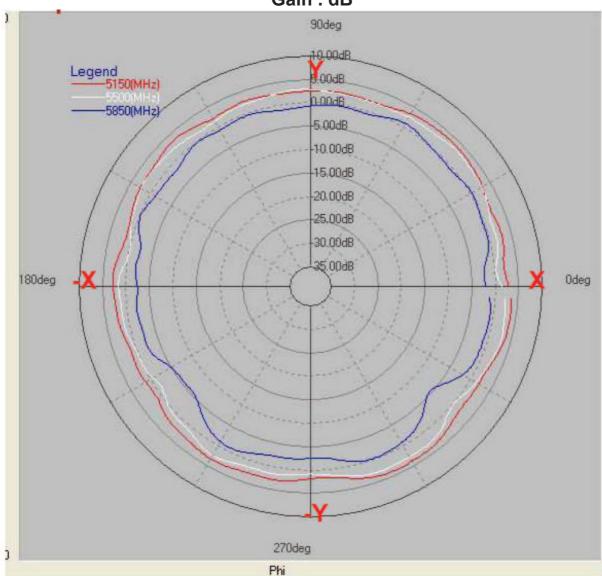
Layer	Max value	Min value	Average
5150(MHz)	3.73 dB	-18.38 dB	0.26 dB
5500(MHz)	4.32 dB	-30.78 dB	0.31 dB
5850(MHz)	3.98 dB	-13.58 dB	-0.62 dB

Phi=90.00deg Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	5.17 dB	-16.65 dB	-0.22 dB
5500(MHz)	5.44 dB	-24.82 dB	-0.49 dB
5850(MHz)	5.12 dB	-14.41 dB	-1.62 dB

Theta=90.00deg Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	3.80 dB	0.90 dB	2.57 dB
5500(MHz)	3.13 dB	-1.07 dB	1.70 dB
5850(MHz)	0.82 dB	-5.67 dB	-1.43 dB



Package

PS 蘇州華科電子有限公司

