



APPROVAL SHEET

Dipole ANTENNA

802.11 b/a Series

2.4/5.x GHz Dual Band Working Frequency

Halogens Free Product

P/N: RFDPA141300SBLB301

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

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



ELECTRICAL CHARACTERISTICS

Item	Specification
Frequency Range	2.4~2.5GHz / 5.15~5.85GHz
Gain	4.35 dBi@2.4~2.5GHz 6.59dBi@5.15~5.85GHz
Return Loss	-10dB(Max)
VSWR	2.0 Max
Radiation	Omni-directional
Polarization	Linear
Impedance	50Ω
Operation Temperature	-20°C ~ +65°C

*note: Electrical characteristics will depend on customer's final application.

MATERIAL TABLE

Items	Description
Cable	Ø1.13(Black)
Antenna Cover 1	ABS+PC(Black)
Antenna Cover 2	ABS+PC(Black)
Connector	Reverse SMA Plug(Black)
PCB	FR4
Up Antenna Base	PC(Black)
Down Antenna Base	ABS+PC(Black)
Rivet	POM(Black)

ORDERING RULE

RF	DPA	1413	00	S	B	L	B	3	01
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.: 1410 Length 143.8mm, Width 10mm	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 1: 1GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band D: DEC G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band U: UHF W: WCDMA band P: WPC	B: MP T: During Test X: Pile Run	0: None 1: Ø 0.81 3: Ø 1.13 6: RG316 7: Ø 1.37 8: RG178	01~99 series number

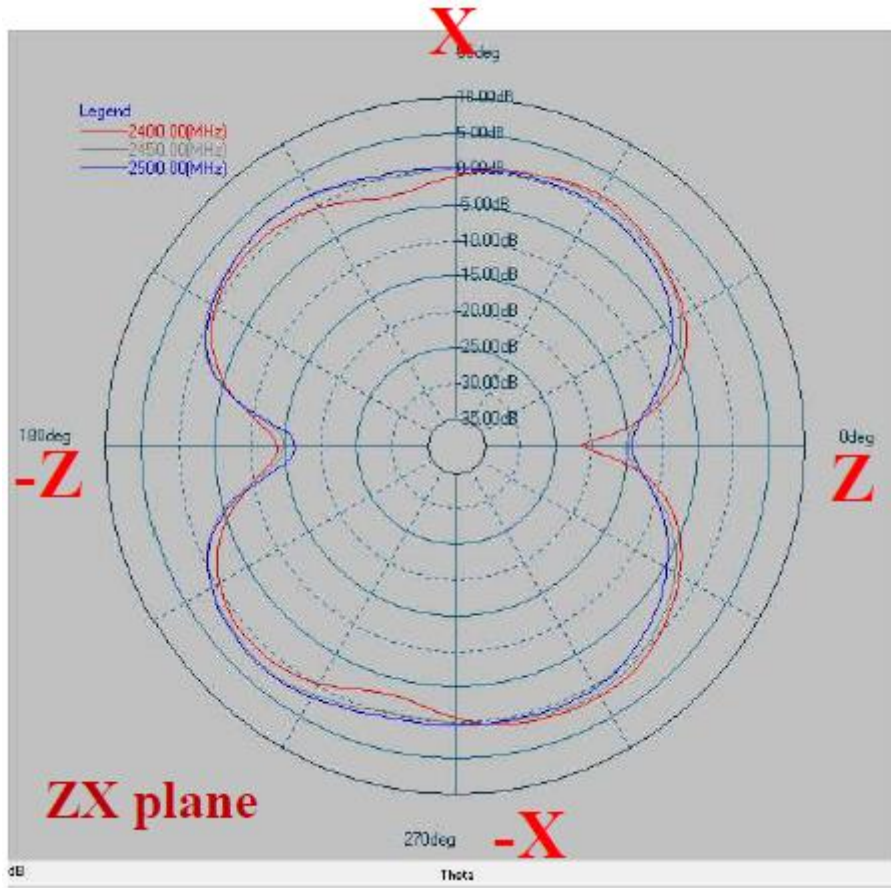


RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

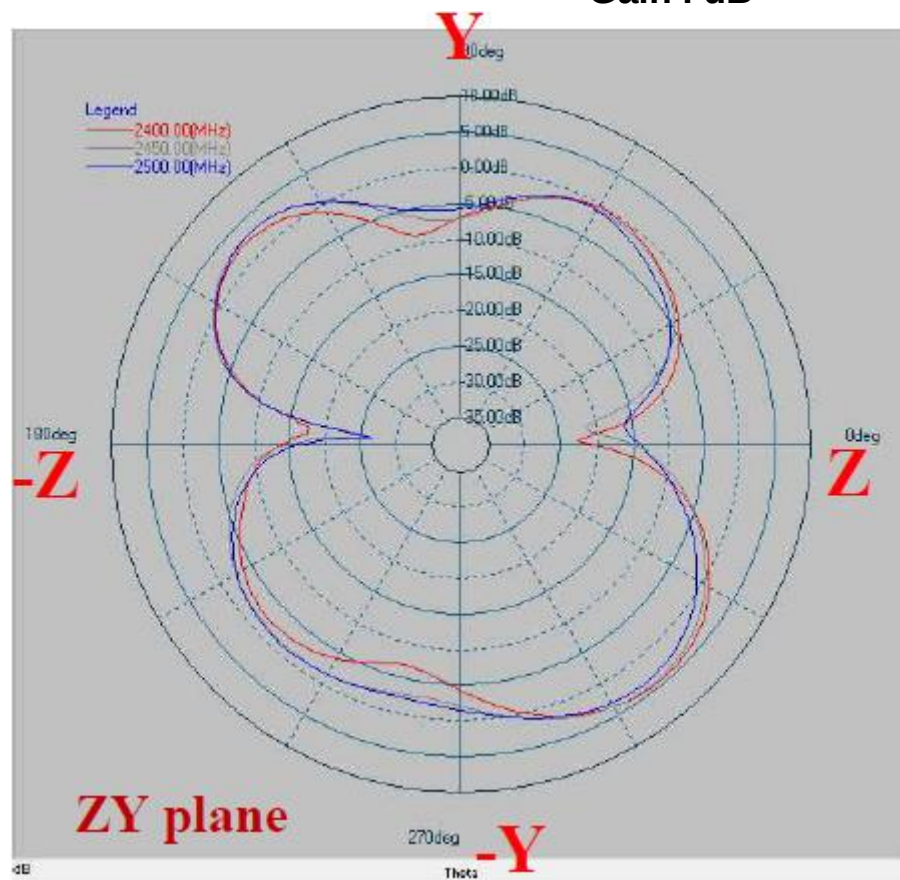
Gain . dB





Phi=90.00deg

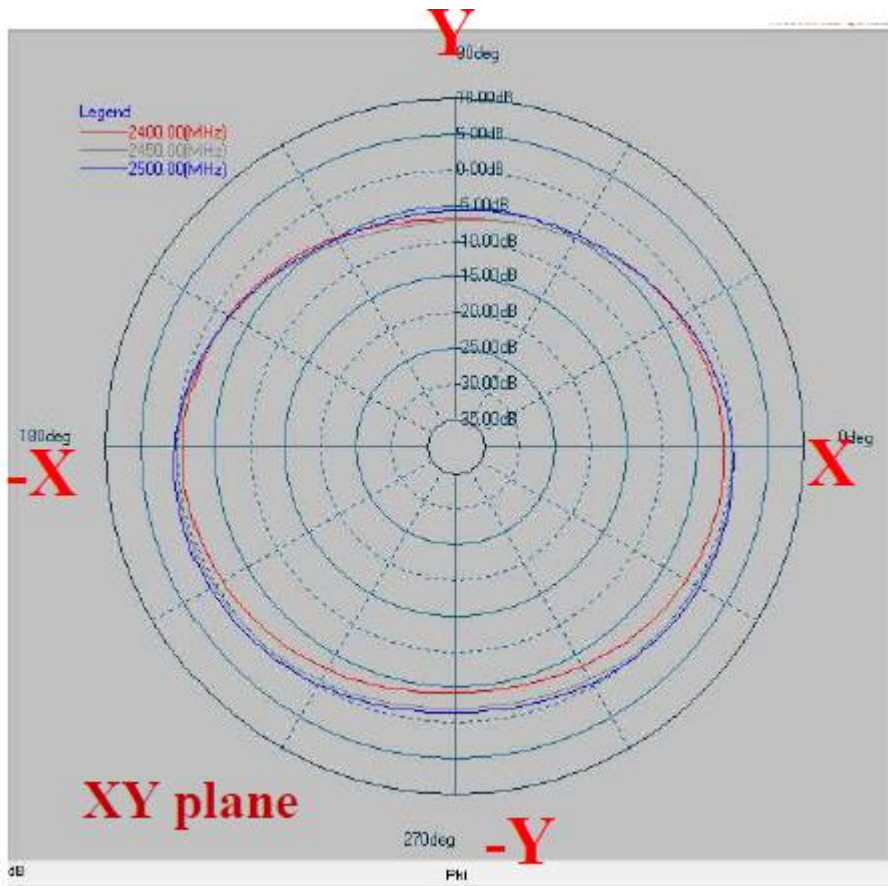
Gain . dB





Theta=90.00deg

Gain . dB

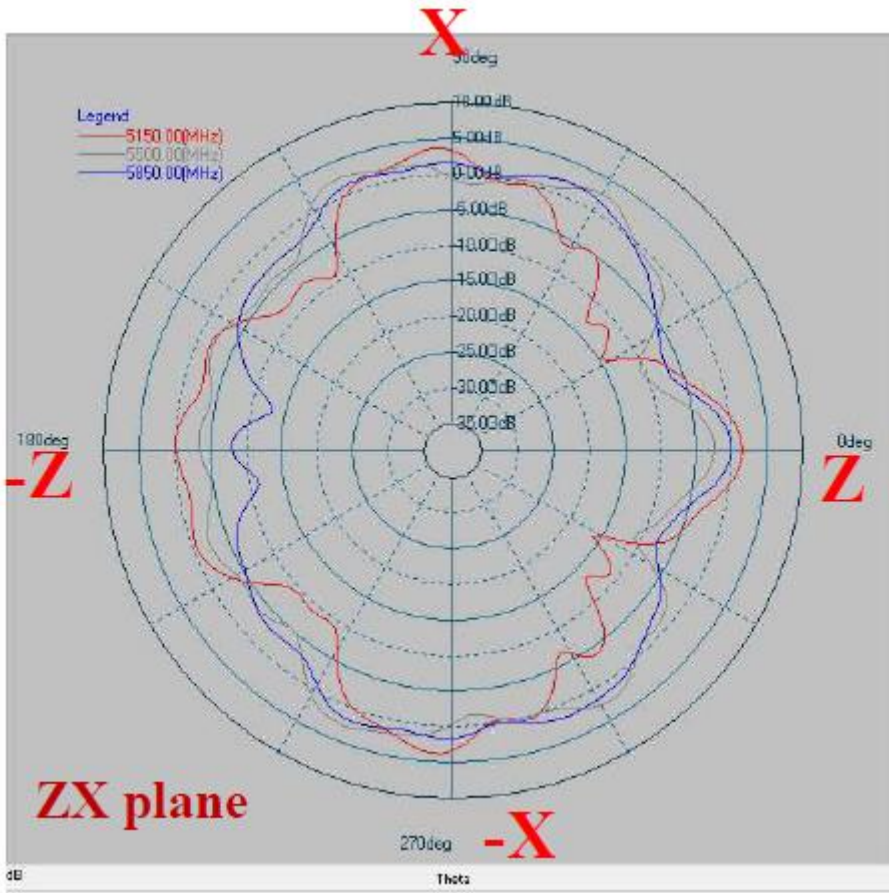


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.62 dB	-1.22 dB	4.35 dB	-1.71 dB	-0.71 dB	-2.76 dB
2450	2.05 dB	-0.65 dB	4.05 dB	-1.29 dB	0.36 dB	-1.69 dB
2500	2.34 dB	-0.83 dB	3.25 dB	-1.59 dB	0.85 dB	-1.28 dB



5150~5850 MHz
Phi=0.00deg

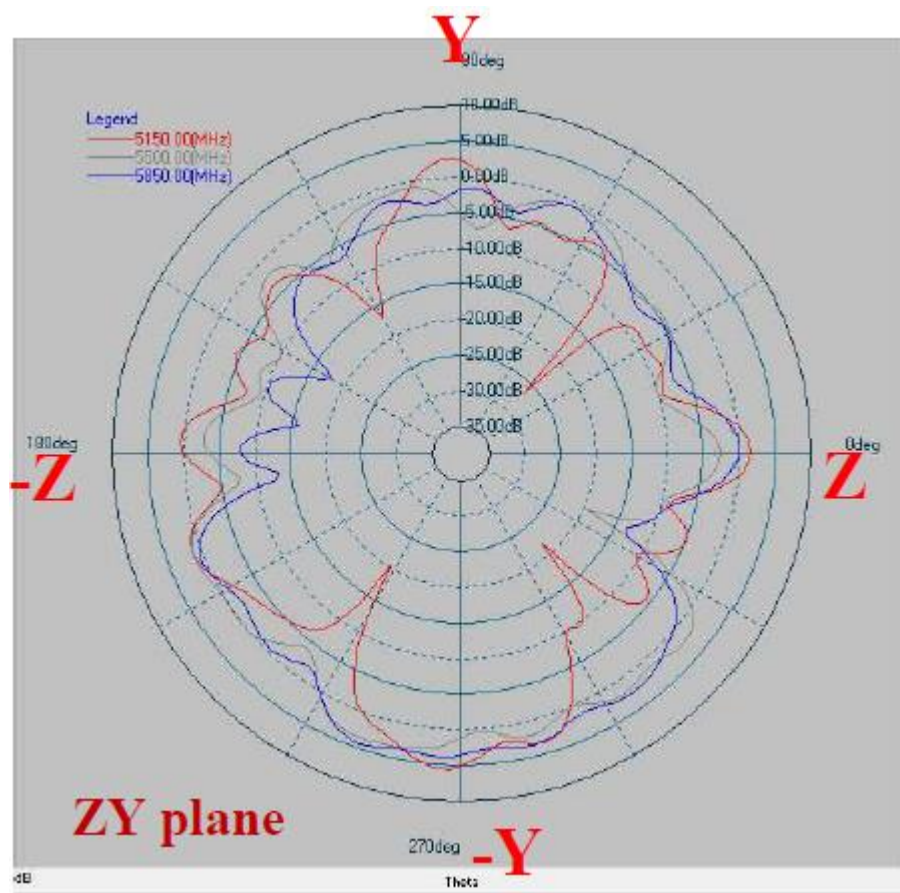
Gain . dB





Phi=90.00deg

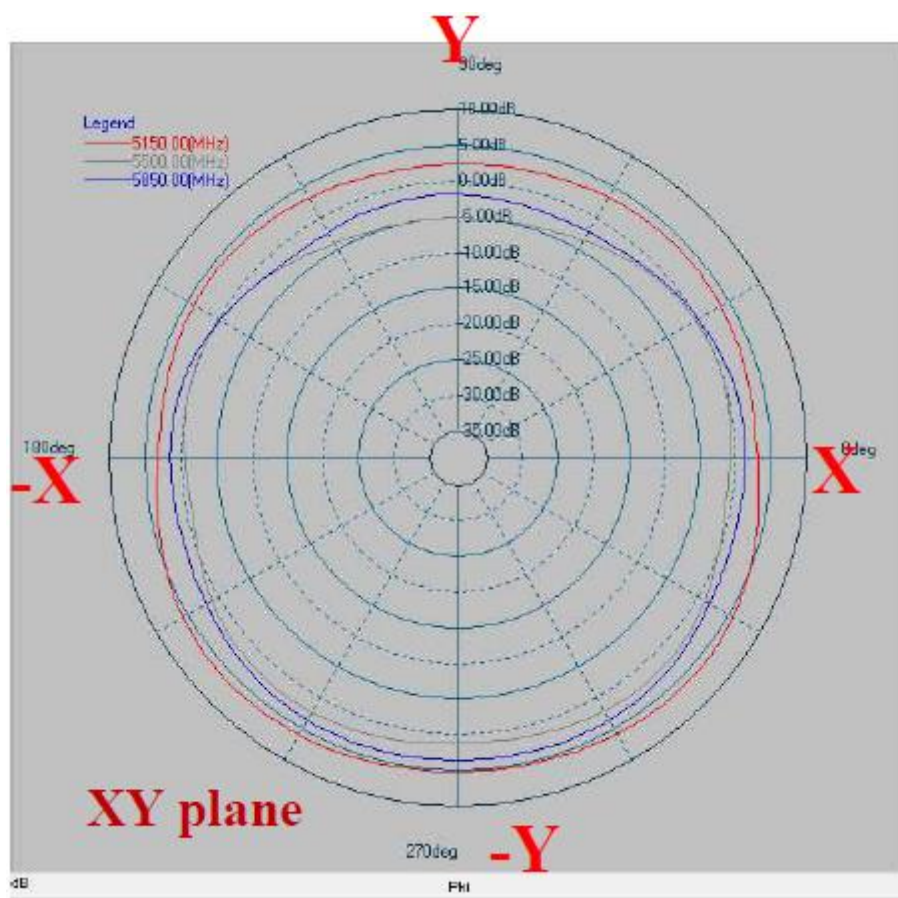
Gain . dB





Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	3.60 dB	-1.88 dB	5.37 dB	-1.99 dB	6.11 dB	4.36 dB
5500	2.54 dB	-1.16 dB	3.38 dB	-1.45 dB	2.26 dB	-0.13 dB
5850	1.99 dB	-1.37 dB	4.14 dB	-1.32 dB	3.54 dB	1.31 dB