

APPROVAL SHEET

FPC DIPOLE ANTENNA

2.4 GHz Working Frequency

Halogens Free Product

P/N: RFFPA380640IMAB301

Manufacturer: Walsin Technology Corporation

Address: 566-1, Kao-shi Road Yang-Mei, Tao-Yuan, Taiwan, R.O.C.

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

Version	Date	Description	Author
V01	2017 Jul.	New Release	SHLEE
V02	2017 Aug.	add fireproof foam	SHLEE

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5GHz (Note-1)
Impedance	50 Ohm Nominal
VSWR	2.0 (Max)
Radiation	Omni-directional
Gain(peak)	2.73 dBi
Polarization	Linear Vertical
Admitted Power	1W

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

MATERIAL TABLE

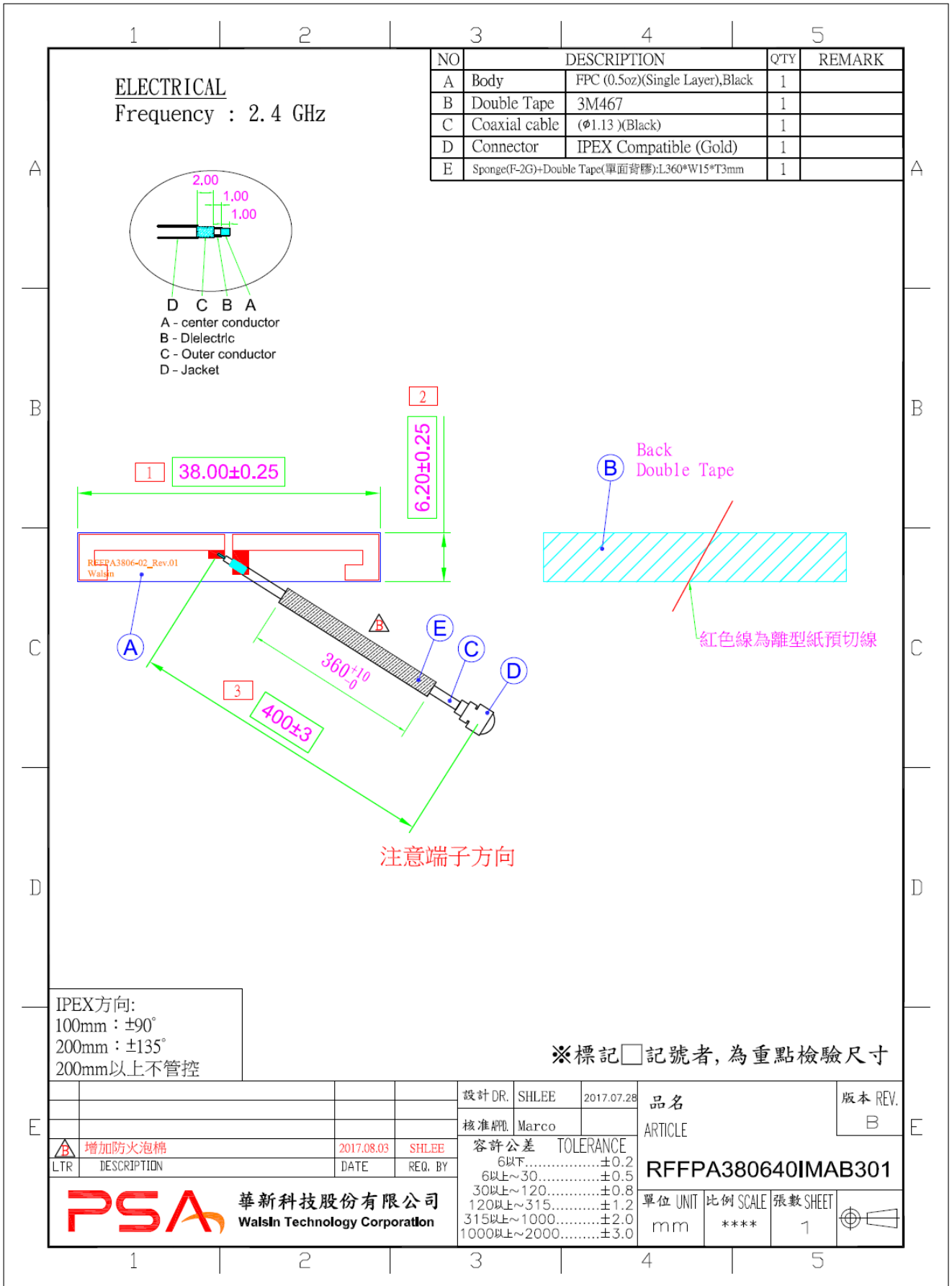
Items	Description
Reflector	FPC, 黑漆
Double Tape	3M 467
Cable	Coaxial Cable Ø1.13 (Black)
Connector	IPEX Compatible (Gold)
Sponge(F-2G)+Double Tape(單面背膠)	L360*W15*T3mm

ORDERING RULE

RF	FPA	3806	40	I	M	A	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3806 Length 38mm, Width 6.2mm	2 digits for cable length e.g.: 40 Cable Length: 4 cm	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 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 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

Antenna type: Dipole

DIMENSIONS



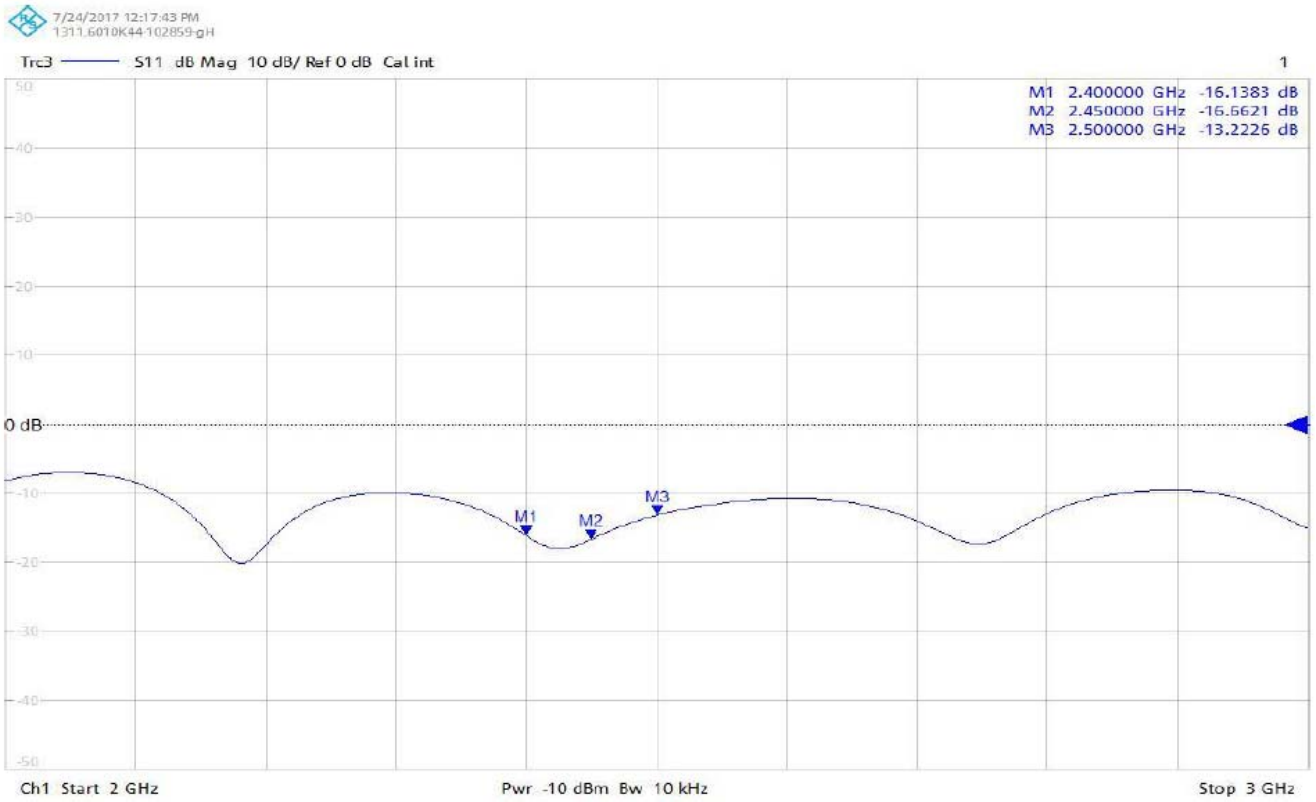
Test Report

■ **Experimental Setup**
confidentiality in another document

■ **Antenna Solution Detail**
confidentiality in another document

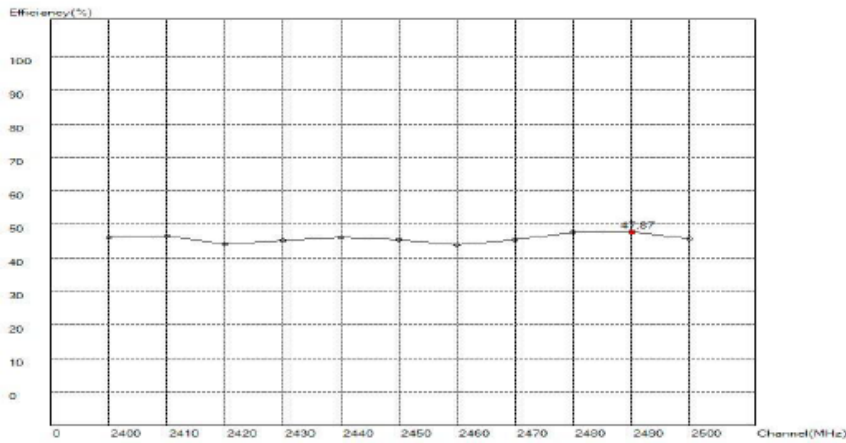
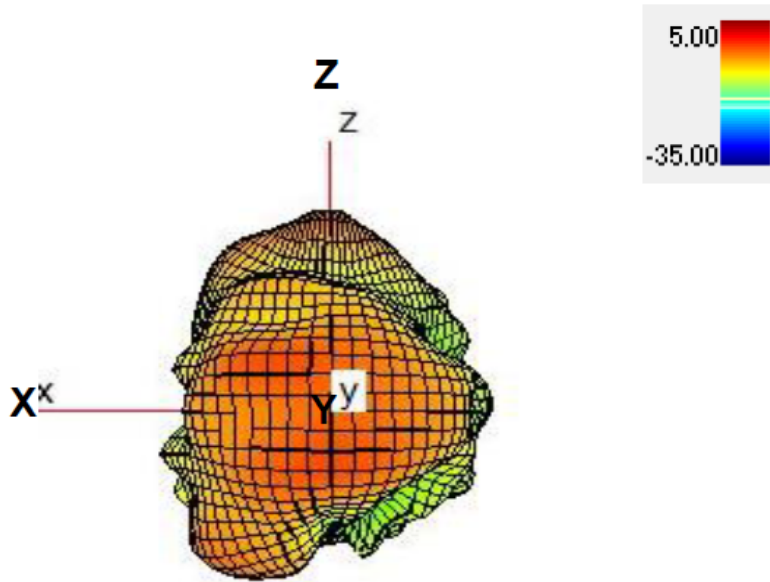
ELECTRICAL CHARACTERISTICS

Return Loss

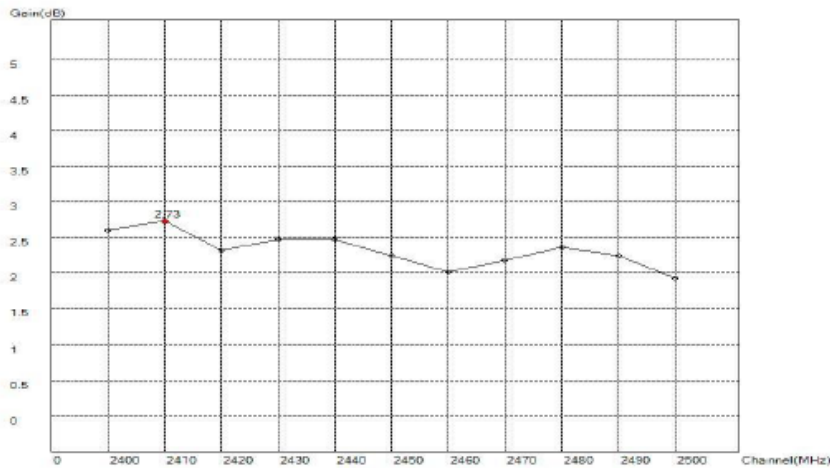


Antenna Efficiency and Peak Gain
2450MHz

NATIONAL QUALITY AW



Maximum Efficiency at 2490 MHz 47.87%



Maximum Peak Gain at 2410 MHz: 2.73dBi

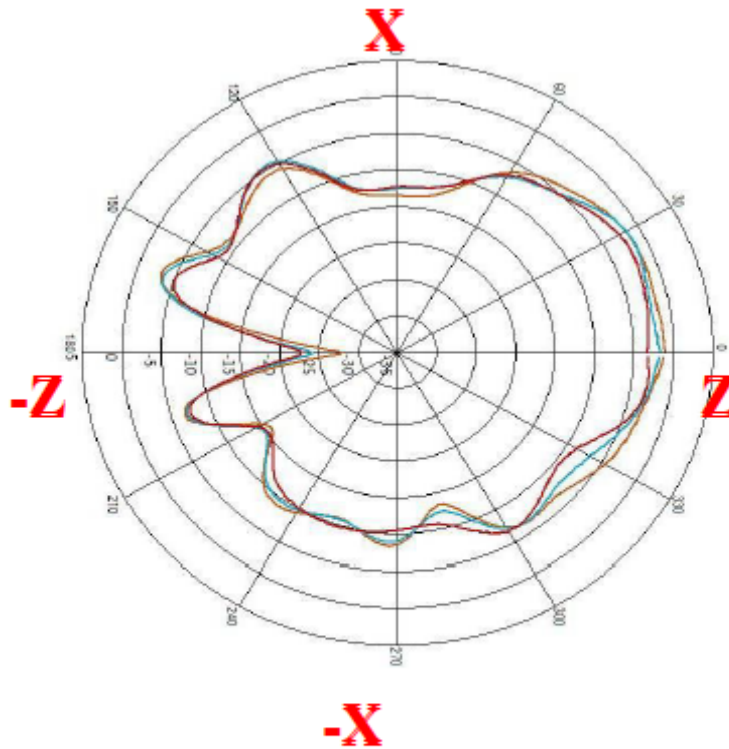
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

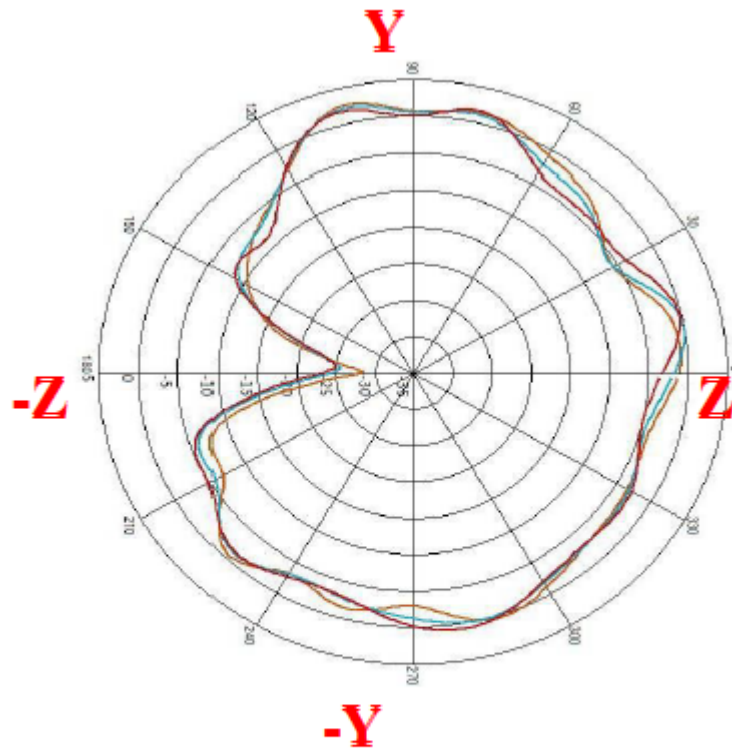
Gain . dB



ZX plane

Y-Z Plane
Phi=90.00deg

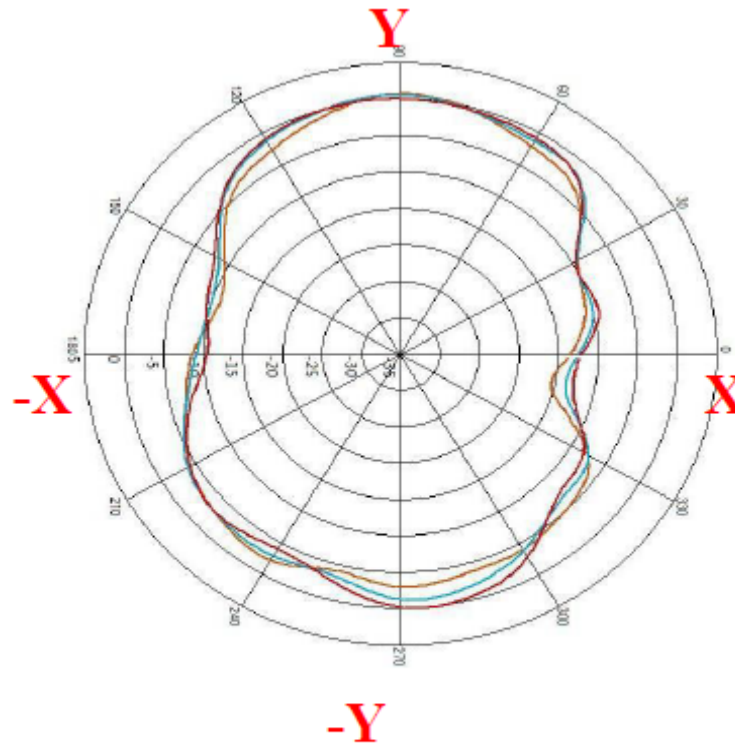
Gain . dB



ZY plane

X-Y Plane
Theta=90.00deg

Gain . dB



XY plane

Frequency [MHz]	XZ-Plane		YZ-Plane		XY-Plane	
	Max. Value (dB)	Ave. Value (dB)	Max. Value (dB)	Ave. Value (dB)	Max. Value (dB)	Ave. Value (dB)
2400 MHz	-0.91	-6.12	2.69	-2.22	0.86	-4.00
2450 MHz	-1.29	-6.47	2.28	-2.35	0.70	-3.51
2500 MHz	-2.13	-7.02	1.93	-2.36	0.18	-3.33