

深圳市维拓精电科技有限公司
WTL International Limited

APPROVAL SHEET

DESCRIPTION :	GPS &GLONASS Built-in Active Antenna
CENTER FREQ.:	1575.42MHz±1.023MHz, 1598.06MHz~1605.38MHz
Seller:	WTL International Limited
Customer Signature	
WTL	
<u>With Company Chop</u>	Approved by:
	Checked by: <i>Xo Xo Lee</i>
	Issued by: <i>Susan He</i> <i>Shengbiao</i>

REVISION HISTORY

Revised Page	Revision Content	Date	Ref. No.	Reviser
3	Material-Connector from IPEX I to IPEX II	21th, Mar, 2018	/	Dai Hongxia
4	Dimension-Cable length	2 nd , May, 2018	/	Shuping Jiang
3	Mateiral-Cable	2 nd , May, 2018	/	Shuping Jiang





Electrical Characteristics

Antenna

1	Antenna model	15*15*4mm	
2	Frequency Range	1575.42MHz \pm 1.023MHz	1598.06MHz~1605.38MHz
3	V.S.W.R	2.0 max	2.0 max
4	Band With@-10dB	GPS>5MHz	GLONASS>5MHz
5	Gain	1.0dBi@15*15mm Ground	1.0dBi@15*15mm Ground
6	Impedance	50 Ω	
7	Polarization	RHCP	

LNA

1	Frequency Range	1556MHz~1608MHz		
2	DC Voltage	1.5V(min)	3.0V(typ)	3.6V(max)
3	DC current	7.3mA	8.5mA	10.0mA
4	Noise Figure	1.0		
5	LNA Gain	33dB@25 $^{\circ}$ C,1575.42MHz 33dB@25 $^{\circ}$ C,1602MHz		
6	VSWR	2.0 max		

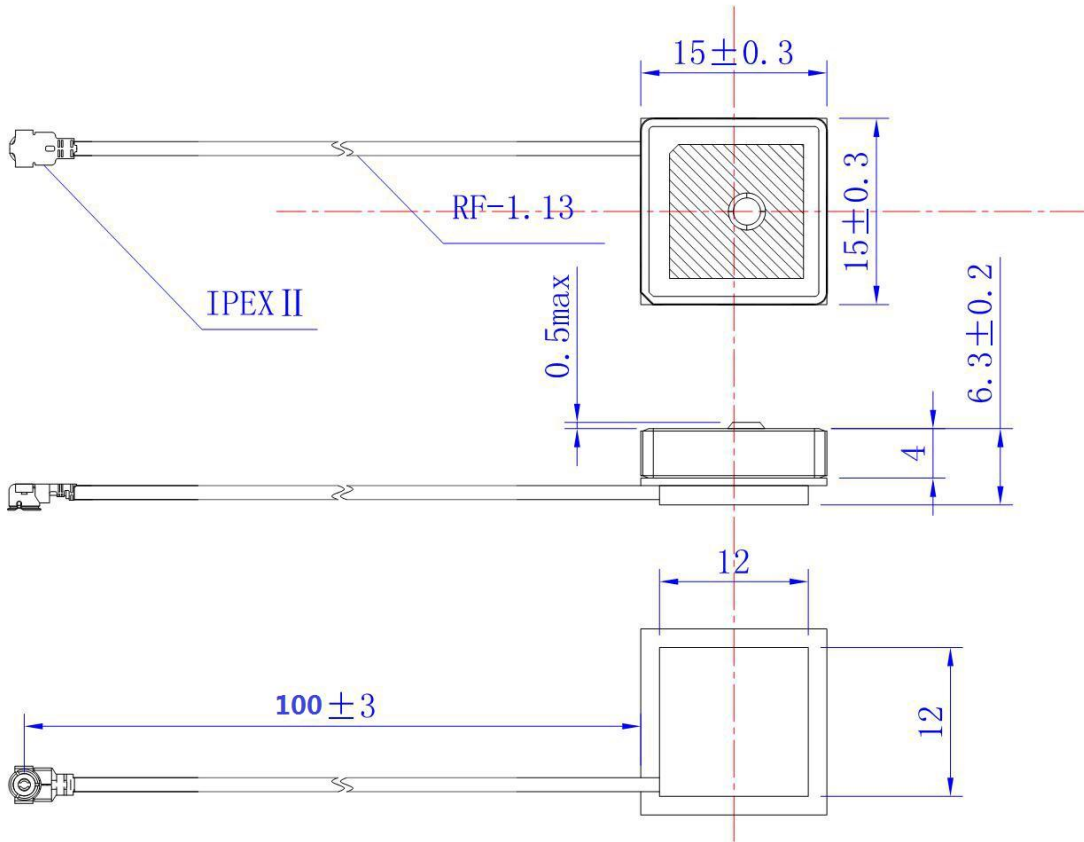
Material

No	Part Name	Spec
1	Antenna	Dielectric Ceramics
2	Ground	FR-4,
3	Cable	105mm RF-1.13
4	Connector	IPEX II

Environment Condition

1	Working Temp	-40 $^{\circ}$ C~+85 $^{\circ}$ C, 10%~95% RH
2	Storage Temp	-45 $^{\circ}$ C~+85 $^{\circ}$ C, 10%~95% RH

Dimensions



Typical Characteristics

1. LNA Gain @3.0V



2. Antenna Radiation Patterns

