



■ ELECTRICAL SPECIFICATION

ANTENNA

PARAMETERS		VALUE	UNIT
Center Frequency		1575.42 ±3	MHz
Band Width	Return Loss ≤ -10dB	10	MHz
Polarization		RHCP	-
Gain (Zenith), typ	With 70 mm Square GND Plane	4.5	dBic
VSWR, max		1.5	-
Impedance		50	Ω
Axial Ratio, max	With 70 mm Square GND Plane	3.0	dB
Dimension		55x50x17	mm
Connector		SMA Gold Straight	-
Color		Black	-
Weight		80	g
Mounting Way		Magnet	-
Cable	Type	RG174	-
	Length	2500	mm
Operating Temperature Range		-40 ~ +85	°C
Relative Humidity		95 ~ 100	%
RoHS Compliant		YES	-

LNA

PARAMETERS	VALUE	UNIT
Frequency Range	1575.42 ±3	MHz
VSWR, max	2.0	-
Supply Voltage	3.0 ~ 5.0	VDC
Gain	28 ± 2	dB
Noise Figure, max	1.5	dB
Current Consumption, max (3.3VDC)	12	mA



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GPS+4G ACTIVE ANTENNA

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RPA-MBF5-A-5550-1M-GE-001

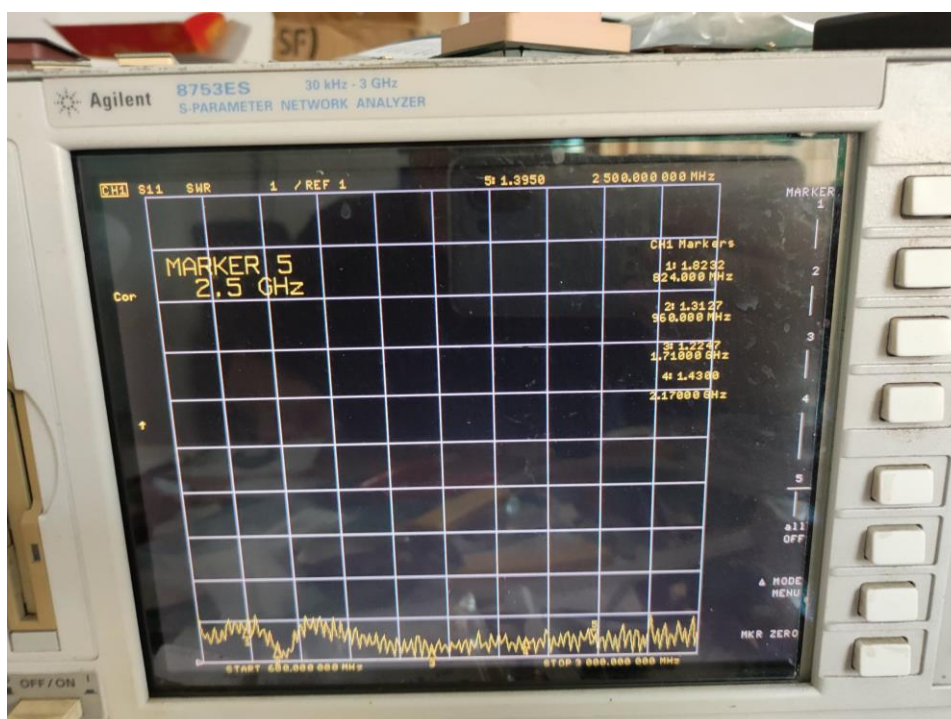
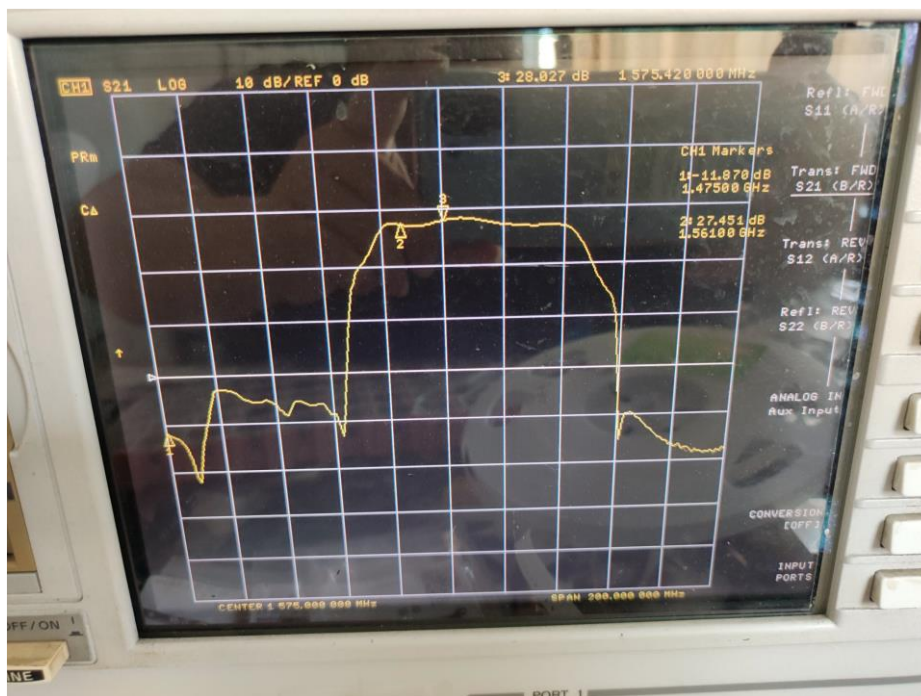
GPS

PARAMETERS	VALUE	UNIT
Frequency Range	1575.42 \pm 3	MHz
VSWR, max	2.0	-
Supply Voltage	3.0 ~ 5.0	VDC
Gain	28 \pm 2	dB
Current Consumption, typ (3.3VDC)	12	mA
IP Rating	IP65	-

4G

PARAMETERS	VALUE		UNIT
Frequency Range	824 ~ 960	1710 ~ 2170	MHz
VSWR, max	2.0		-
Polarization Type	Linear		-
Gain	2		dBi
Impedance	50		Ω

■ FREQUENCY CHARACTERISTIC



■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, July 29, 2022
APPROVED BY:	CP, July 29, 2022
REVISION:	A, Initial Release

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