

GPS 30x20 L100CM1 Antenna

FEATURES & BENEFITS

- Adhesive Mount
- RoHS & Reach Compliant
- Covering Bands: GPS (L1) / Galileo (E1) / BeiDou (B1)

APPLICATIONS

- Satellite Navigation Receivers
- Geodetic Surveying and Mapping
- Channel Surveying and Mapping
- Precision Agriculture
- Marine Surveying
- Asset and Fleet Tracking
- Oil, Gas, and Mining Industries
- M2M Applications
- Hand-held/Portable Devices



ORDER INFORMATION

Product Name	GPS 30x20 L100CM1 Antenna
Model	AIGF001
Dimensions	FPC:30x20 mm
	Cable:Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 100 mm)
Weight	0.5 g
Mounting	Adhesive Mount
MOQ	1000 pcs

MyAntenna RF Technology Co., Ltd

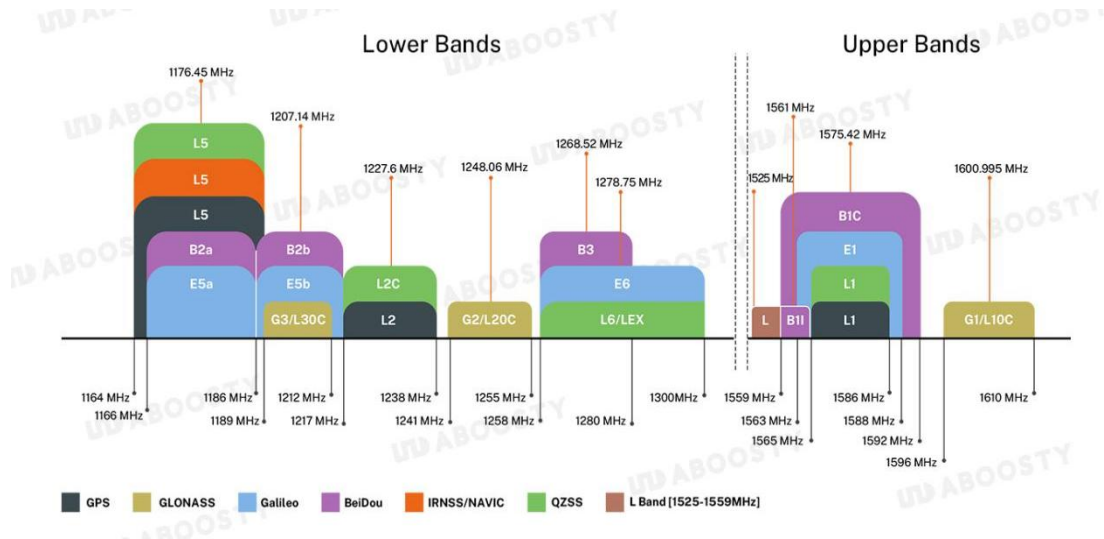
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GNSS FREQUENCY BANDS

GNSS Frequency Bands Covered					
GPS	L1	L2	L5		
	●	○	○		
GLONASS	G1	G2	G3		
	○	○	○		
Galileo	E1	E5a	E5b	E6	
	●	○	○	○	
Bei Dou	B1I	B1C	B2a	B2b	B3
	●	●	○	○	○
QZSS (Regional)	L1	L2C	L5	L6	
	●	○	○	○	
IRNSS(Regional)	L5				
	○				
SBAS	L1/E1/B1	L5/B2a/E5a	G1	G2	G3
	●	○	○	○	○

*SBAS systems: WASS(L1/L5), EGNOS(E1/E5a), SDCM(G1/G2/G3), SNAS(B1,B2a), GAGAN(L1/L5), QZSS(L1/L5), KAZZ(L1/L5).



REFERENCE GUIDE

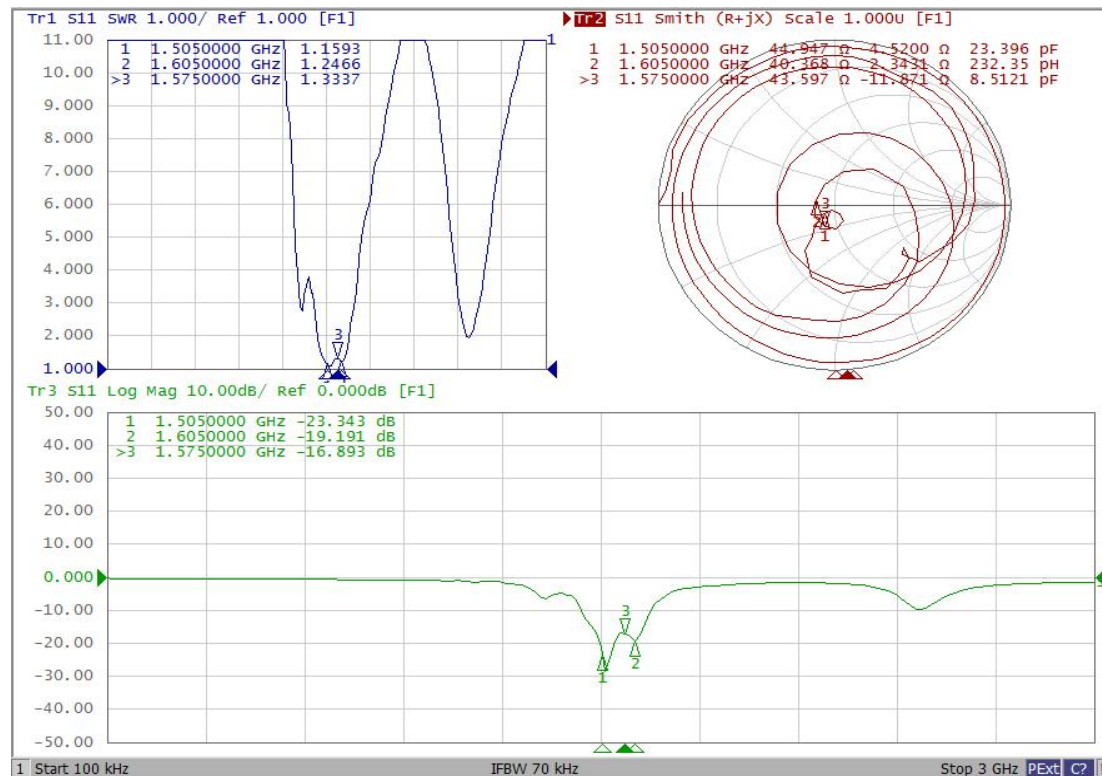
Antenna	
Frequency	1505-1605 MHz
VSWR	2 : 1
Peak Gain (dBi)	0.48
Peak Efficiency(%)	45.32
Polarization	Linear
Radiation Pattern	Omnidirectional
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Material Substance Compliance	REACH/RoHs Compliant
All the data were obtained through testing after the test objects were affixed to the surface of the PC material with a thickness of 1.4 millimeters.	

ELECTRICAL PERFORMANCE

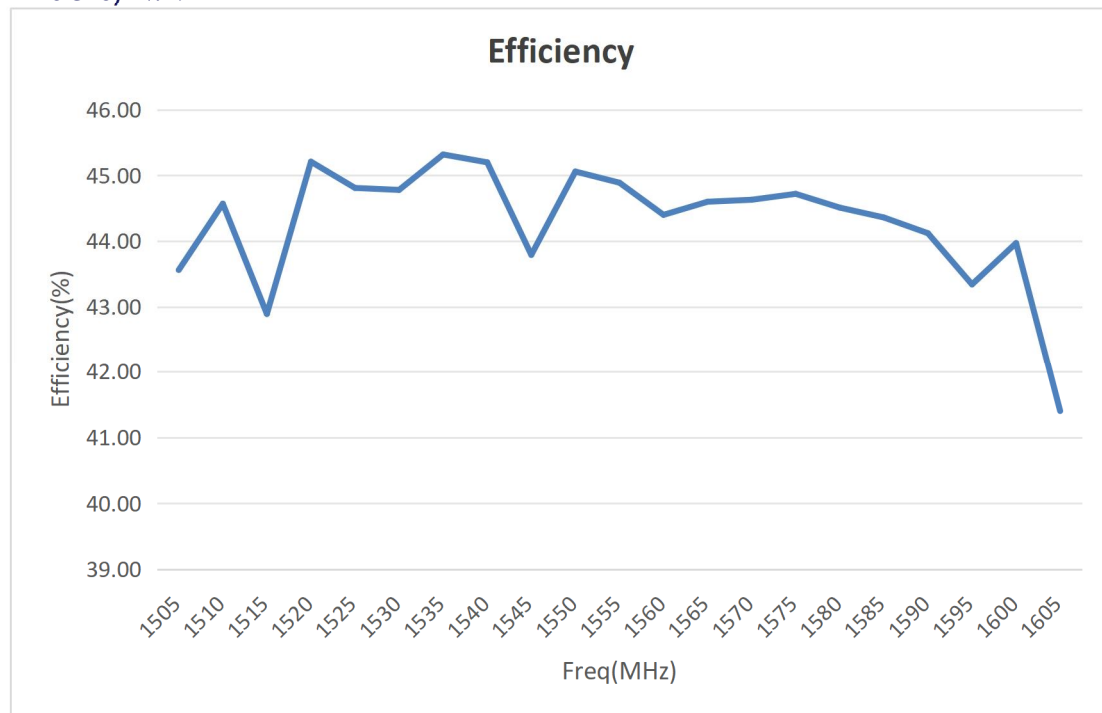
- Note

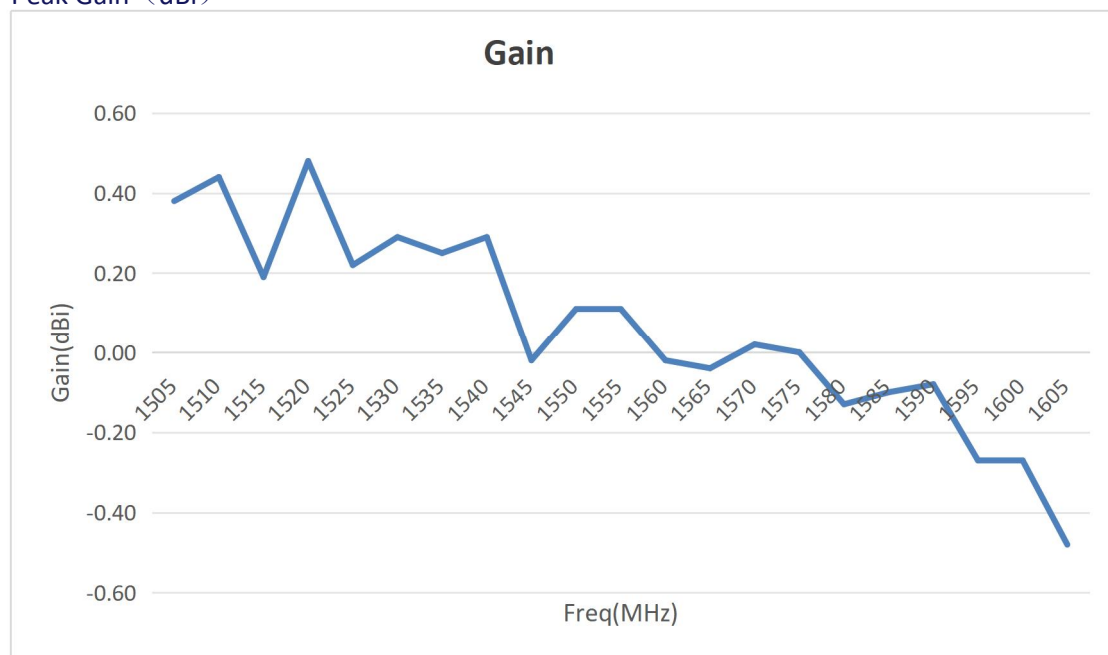
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Return Loss



Efficiency (%)

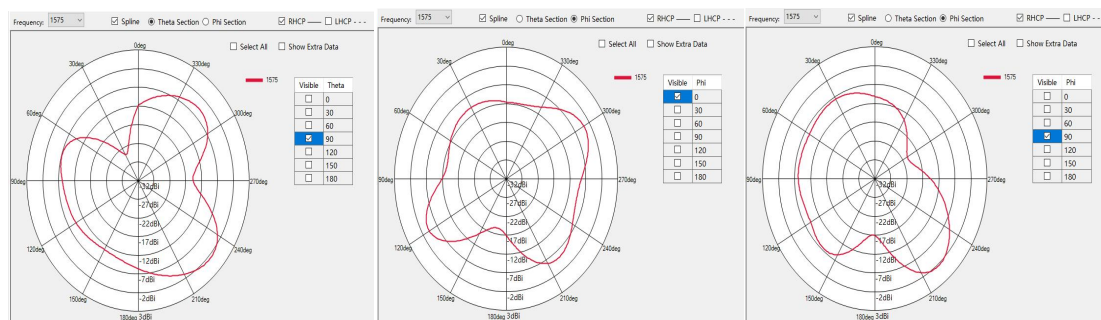




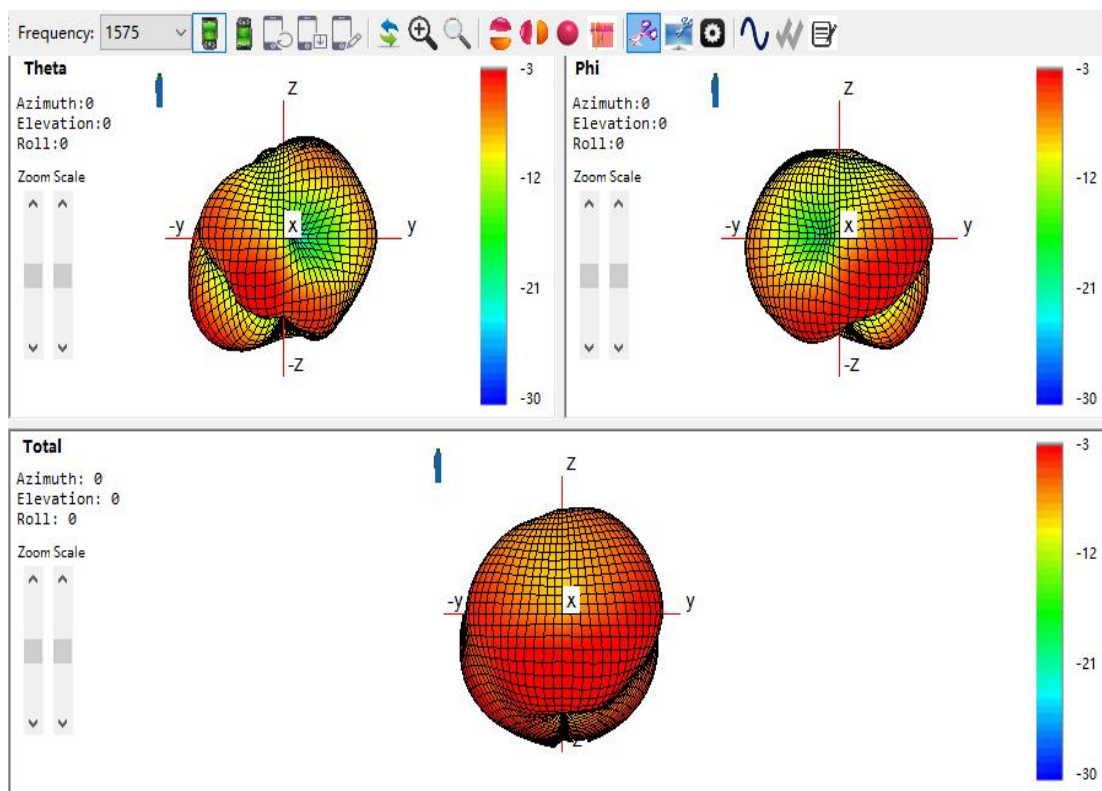
Freq(MHz)	Gain(dBi)	Efficiency(%)
1505	0.38	43.56
1510	0.44	44.57
1515	0.19	42.89
1520	0.48	45.21
1525	0.22	44.81
1530	0.29	44.78
1535	0.25	45.32
1540	0.29	45.20
1545	-0.02	43.79
1550	0.11	45.06
1555	0.11	44.89
1560	-0.02	44.40
1565	-0.04	44.60
1570	0.02	44.63
1575	0.00	44.72
1580	-0.13	44.51
1585	-0.10	44.36
1590	-0.08	44.12
1595	-0.27	43.34
1600	-0.27	43.97
1605	-0.48	41.40

RADIATION PATTERNS

1575MHz Gain=0dBi



1575MHz Gain=0dBi



HOUSING CONFIGURATIONS

