

## Marine GPS Antenna

### Built-in Short Circuit Protections



Marine GPS antenna equips innovative, high quality, performance and built-in RF protection circuit to protect the active LNA and high gain as well as value-added design at a wide range of power supply from 3v ~ 6v for any kinds of receivers.

### Marine Antenna (MCX 90D 3M)

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### Performance

Marine GPS antenna has ultimate performance and unique design which meets **Marine, Networking and any GPS applications**, which requires maximum performance and complete support.

### Features

- 10W RF protection
- Standard WAAS tune
- Short-circuit protection
- Wide range power input voltage from +3v ~ 6v
- Narrow band width at 10MHz for real GPS L1 signal
- Cable length 3M
- 2 stages active LNA
- Dual Filters BPF(directric)& LPF(lump element)
- Dielectric patch antenna
- Low noise, linear regulator
- High current shut down
- Radio frequency interference immunity (RFI)
- Improve overall GPS system resistance to interference

General	
Architecture Design	2 Stages active LNA
	Dual Filters, (BPF(dielectric) & LPF(lump element))
	RF protection (10watt), nano-second Spark-Gap
	Dielectric Patch antenna
	Low Noise Low drop-out, Linear Regulator
Performance	
Receiving Frequency	L1 Band(1575MHz)
Output Impedance	50 ohms
Polarization's	Right Hand Circular (RHC)
Bandwidth	< 50 MHz
VSWR	1.8 Typical @ 1575MHz
Elev. Angle Coverage	5~90 degree
Az. Bearing Coverage	360 degree
Filtering	Dual(BPF <50 MHz B/W >
Over-all Gain	28dB (typical including 4dB cable loss & Filters)
Over-all NF	<1.8dB @fo, 2dB max.
LNA Characteristic	K=>1 Un-conditionally Stable
RF Insertions loss	0.1dB, leakage power 100mW /1 watt input
Electrical	
Power Input	+3Vdc to +6Vdc input, AutoSwitch
Power Consumption	25mA
Power Input Sensor	Reverse Polarity Short Circuit shutdown
Over-Current Sensor	Thermal Over-current shutdown >+150degreeC
Physical	
Dimensions	79d x 58h x 13mm
Mount	13mm treaded (1/2inch)
Radome Color	White
Coax Connector	BNC,SMA,TNC, MCX
Coax Cable	RG-58, RG-174, RG-316
Environmental	
Operating Temperature	-30 to + 85 degree C
Storage	-40 to + 90 degree C

STR-3 antenna RHCP response / ANTENNA RADIATION PATTERN TEST





