

GPS Antenna

FEATURES:

- ❖ Water-tight housing
- ❖ Low noise figure
- ❖ High gain
- ❖ Ceramic patch antenna
- ❖ Temperature and Vibration Qualified
- ❖ Compact size
- ❖ Low cost

APPLICATIONS:

- ❖ GPS systems



DESCRIPTION:

CGP Series

CGP series antenna is a standard product for the GPS system. The antenna is constructed with machined housing, ceramic patch array, low noise amplifier, filter and high performance Radome material. The circular polarization improves reception ability. The built-in low noise amplifier with very low DC power consumption enhanced already high performance patch array. The integrated design and pre-installed cable offers compact size and ease system connection.

SPECIFICATIONS:

Performance	
Center Frequency (MHz)	1575.42±3
V.S.W.R	1.5:1
Bandwidth (MHz)	± 5
Attenuation	fo ±100MHz > 30dB
Impedence	50 ohm
Peak Gain	> 3dBic Base on 7 x 7 cm ground plane
Gain Coverage	-4dBic at -90 °C<0<+90 °C(over 75% Volume)
Polarization	Right hand Circular
LNA Gain (dB)	27 (Typical)
Noise Figure (dB)	1.5 (Typical)
DC Voltage	Voltage: 3V or 3.3V or 5V DC, customized voltage available
DC current	15mA Max.
Weight (g)	< 100 gram
Size (mm)	50 x 39 x 16mm
Cable	RG174 3m or 5m or customized

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Performance	
Connector	TNC/BNC/SMA/MCX or customized
Mounting	Magnetic base
Housing	Black
Working temperature (°C)	-40 to + 85 °C
Storage temperature (°C)	-40 to + 100 °C
Vibration	Sine sweep 1g(0-p) 10~50~10Hz each axis
Humidity	95%~100% RH
Weatherproof	100% Waterproof
MTBF=1x10-6/pc.hr	40°C±5°C DC=3.0V±0.5V Qty:2000pcs Time:480h