

GA- 88P Active Antenna

- ❑ GA-88P is designed for Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receiver
- ❑ It is the integration of the high performance GPS patch antenna and a low noise amplifier into an extremely fully waterproof enclosure
- ❑ When connected to a GPS receiver with +2.5 ~ 5.5 V DC antenna power it provides excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V DC or 5V DC input Voltage



Datasheet GA-88P Active Antenna

Mechanical Data:

Ø in mm (DxH)	80 x 72
Weight	120 gram (without cabel)
Standard Mounting	External flagpole mount
Optional Mounting (1,2)	1) Roof-mount with stainless steel base & shaft 2) Rail side mount with stainless rod
Construction	Enclosure Center feeds TNC connector for antenna output

Environmental Conditions:

Operating Temp.	-30 °C ~ + 80 °C
Storage Temp.	-40 °C ~ + 100 °C
Relative Humidity	40% to 95% non-cond.
Waterproof	100% waterproof

Antenna element:

Center Frequency	1575.42 +/- 1.023 MHz
Polarization	R.H.C.P
Absolute Gain@ Zentith	+5 dBi typically
Gain at 10° Elevation	-1 dBi typically
Axial ratio	3 dB max.
Output VSWR	1.5:1 max
Output Impedance	50 Ω

Low noise Amplifier:

Center Frequency	1575.42 +/- 1.023 MHz
Power Gain	28 +/- 4.5 dB
Band With	2 MHz min.
Supply Voltage	2.5 ~ 5.5 V DC
Current Consumption	13 mA @ 3.0 V DC 18 mA @ 5.0 V DC

VSWR	1.5 max.
Output Impedance	50 Ω

Cable & Connector:

RF Cable	10m RG58 A/U connect. are hermetically molded plastics for waterproof and stain relief (standard, other length available upon request)
Pulling Strength	12kg for 5 sec
Connector available	BNC standard, other types available upon request.

Overall Performance:

Center Frequenz	1575.42 MHz
Gain	30 +/-4.5 dB
Noise Figure	2.0 max.
Band With	2 MHz
Axial Ratio	3 dB max.
VSWR	1.5 max.
Output Impedance	50 Ω

Ordering Information:

GP-88P

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