

GLYN

High-Tech Distribution

GPS+GSM Combination Antenna

Model: AGC601



1 Part Number

AGC601-XXX

AG= Glyn Antenna

C = Combo GSM/GPS antenna

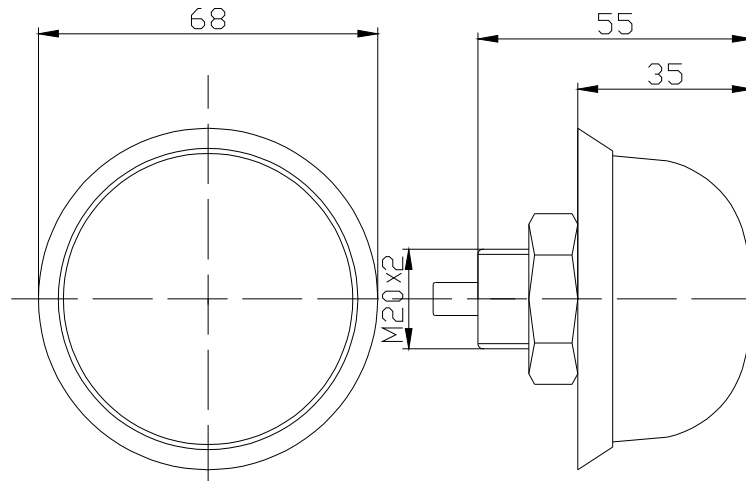
601 – Series

XXX – Customer part number

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2 Dimension (Unit: mm)



3 Electrical Characteristics

3.1 GSM Antenna

Form 1

No.	Item	Specifications
1	Frequency	824~960 MHz/1710~1990 MHz 1920~2170MHz
2	V.S.W.R (5m)	$\leq 2.0 : 1$
3	Gain (Zenith)	2 dBi
4	Impedance	50 Ω

3.2 Dielectric Antenna

Form 2

No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency	1575.42 MHz	± 3 MHz
2	Band Width	± 5 MHz	± 1 MHz
3	V.S.W.R (in BW)	1.5 : 1	—
4	Gain (Zenith)	3 dB	± 0.5 dB
5	Polarization	RHCP	—
6	Impedance	50 Ω	—



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3.3 LNA/Filter

Form 4

No.	Item	Specifications	Post Environmental Tolerance
1	LNA Gain	14 ± 2 dB	± 2.5 dB
2	Noise Figure	1.5 dB	—
4	DC Voltage	2.7~5.5 V	
5	DC Current	5~15 mA	

4.0 Mechanical

Form 5

No.	Item	Specification
1	Cable	RG174/RG58 3m/5m or others
2	Connector	SMA/SMB/MCX or others
3	Plastic Housing	Black
4	Mounting	Screw

5 Reliability

Condition: Temperature: 40 ± 5 °C

Load: DC=5V ± 0.5 V

Quantity: 2000pcs

Sustained Time: 480h

6 Environmental Specifications

Post Environmental Tolerance (Refer to the form 2~3)

Condition: Temperature range 25 ± 3 °C

Relative Humidity range 55~75%RH

Operating Temperature range -40 °C ~ +85 °C

Storage Temperature range -40 °C ~ +100 °C

6.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature 40 ± 2 °C and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.



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6.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form 1~2 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

6.3 Drop Shock

The device should satisfy the electrical characteristics specified in form 1~2 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

6.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to temperature $80 \pm 5^{\circ}\text{C}$ for 24 ± 2 hours and 1~2 hours recovery time under normal temperature.

6.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature $-40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 24 ± 2 hours and to 2 hours recovery time under normal temperature.

6.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form 1~2 after exposed to the low temperature -25°C and high temperature $+85^{\circ}\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

7 Weatherproof

Put the antennas in 1m deep water for 12h, and find 100% waterproof.