

ALLISCOM

GCRTB GPS+Cellular Antenna

Data Sheet



Model No.	GCRTB-SWDHDBMFAS(GCRTB-WBA-3-FOA-3)
Feature	Delivers high performance for GPS/GSM/DCS/PCS/WCDMA 1575.42MHz/824~960MHz/1710~2170MHz RoH S Compliant
Benefit	Resistant to harsh outdoor environment High Performance Concealable, Flat structure Omni directional for cellular system
Description	The GCRTB is a high performance and quality antenna for GPS/Cellular applications. The antenna features high efficiency. The RF connector and cable length can be customized as required.

1. Electrical Specifications

1.1 Electrical Data

GPS Active Antenna:	
Patch Antenna (with 7*7cm ground plane)	
Frequency	1575.42 ±3MHz
VSWR	1.5 Max.
Bandwidth	20 MHz Min. at -10 dB
Axial Ratio	3 dB Typical
Impedance	50 Ω
Peak Gain	4 dBic Min. (7 cm×7 cm ground plane)
Gain Coverage	≥ -4dBic at -90°≤ θ≤90°(over 75% volume)
Polarization	RHCP
Amplifier Module	
Amplifier Gain without cable	27dB Typical
Noise Figure	1.8dB Typical
Output VSWR	2.0 Max.
DC Voltage	DC 2.7V to 6.0V
DC Current	8.5±4.5mA

Cellular Antenna:	
Frequency	824~960MHz ; 1710~1880MHz ; 1850~1990MHz ; 1920~2170MHz
VSWR	2.0: 1
Impedance	50Ω
Pattern Type	Omni-direction
Power Handling	25 watt

* Specifications subject to change without notice.

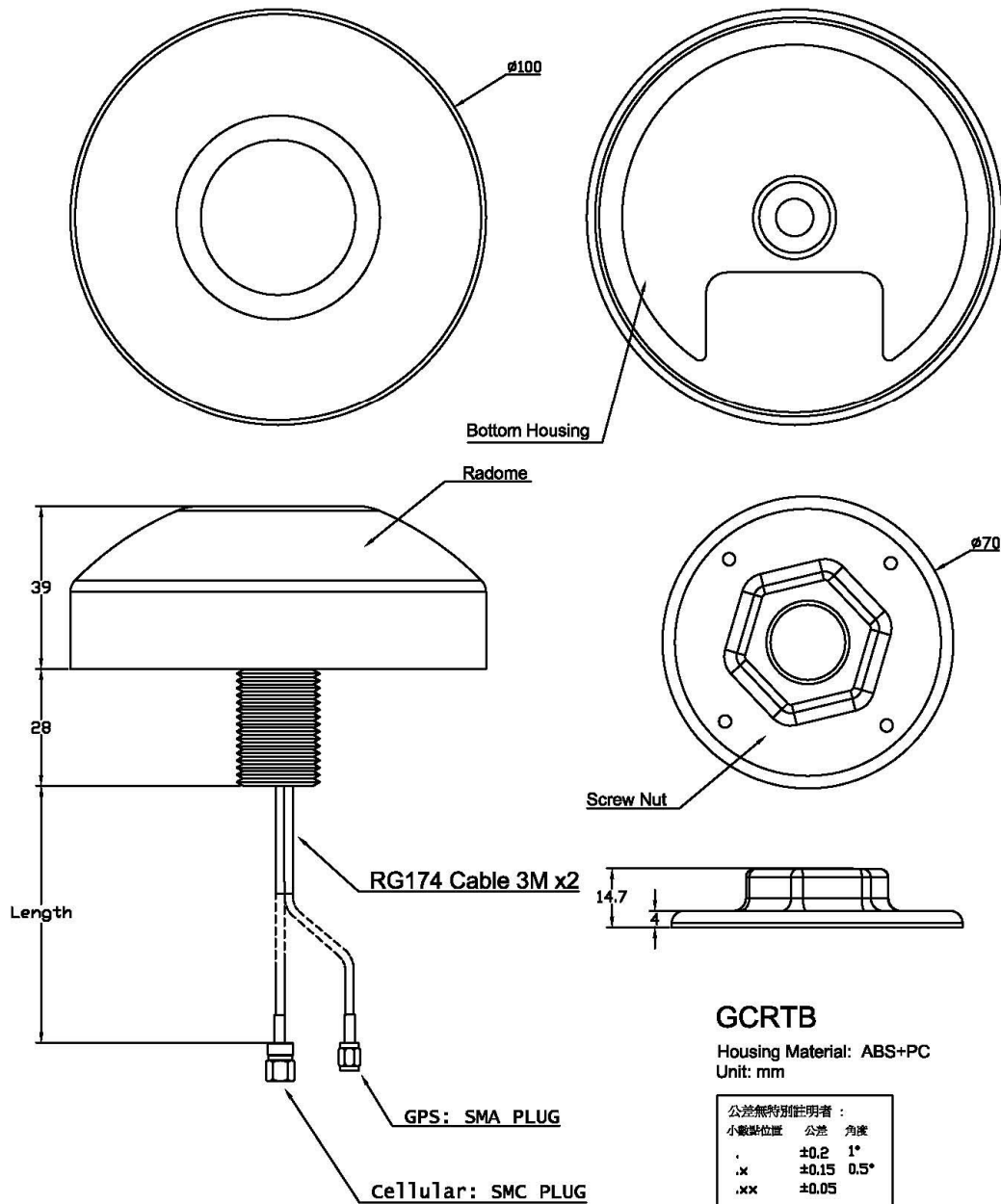
2. Mechanical Specifications

2.1 Mechanical Data

Weight (Without Cable)	280 grams max.
Housing Material	ABS
Size	100mm Dia.× 67mm(39mm)
Connector	SMA Plug(GPS) & SMC Plug(GSM)
RF Cable	RG174
Cable Length	3M +60/-0 mm
Label	ACC Label
Mounting	Permanent mount
Housing Color	White

* Specifications subject to change without notice.

2.2 Dimensions



3. Environmental Specifications

Working Temperature	-40°C < T < +85°C
Storage Temperature	-50°C < T < +85°C
Vibration	Sine Sweep, 1G(0-P), 10-150-10Hz each axis
Humidity	95%~100% RH
Degrees of Protection	IP56 (Dustproof and Waterproof)

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