

ALLISCOM

GCRC1

GSM / DCS / PCS / GPRS / EDGE / WCDMA

Data Sheet



Model No. GCRC1

Features Delivers high performance for 2G / 3G
GSM / DCS / PCS / GPRS / EDGE / WCDMA
824~960 / 1710~2170 / 2500~2690 MHz
Waterproof IP56 / IP67 (Option)
RoHS Compliant

Description The GCRC1 is a high performance and quality antenna for cellular applications. The antenna features high efficiency and meet all of the 2G/3G performance standards. The RF connector and cable length can be customized as required.

1. Antenna Performance

1.1 Performance

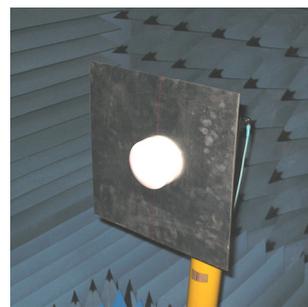
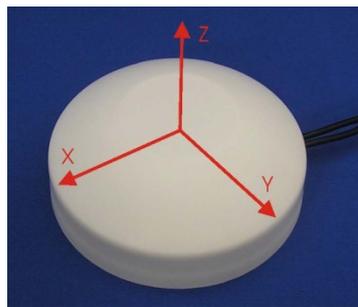
Cellular Antenna:

Frequency (MHz)		824~960	1710~1990	1920~2170	2500~2690
VSWR Max.		3.0:1	3.0:1	3.0:1	3.0:1
Average Gain (dBi)	with Ground Plane*	3	5	5	4
	w/o Ground Plane	1.9	1.7	2.4	0.3
Average Efficiency (%)	with Ground Plane	78	79	79	52
	w/o Ground Plane	59	67	69	42
Peak Gain (dBi)	with Ground Plane	4	6	6	4
	w/o Ground Plane	2.5	2.9	2.9	0.6

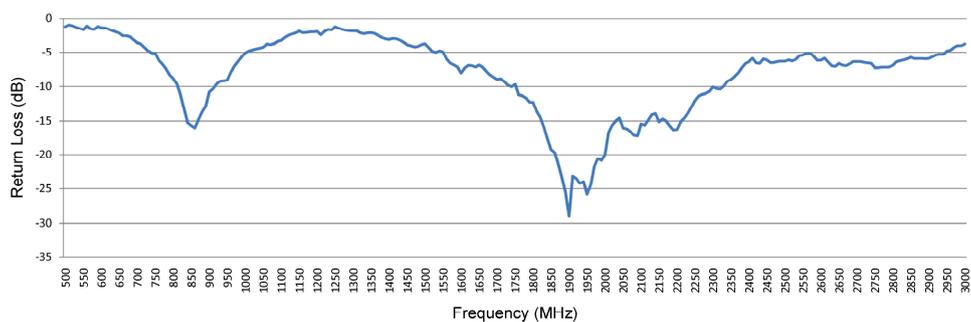
* : 40x40cm Ground Plane

Note: Specifications subject to change without notice.

1.2 Antenna Measurement

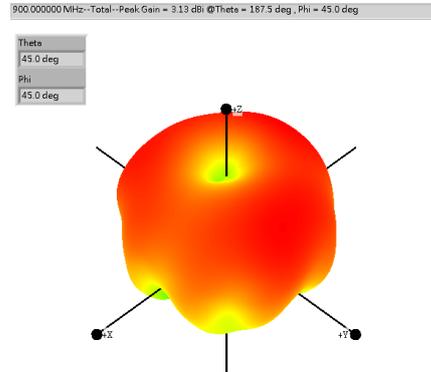
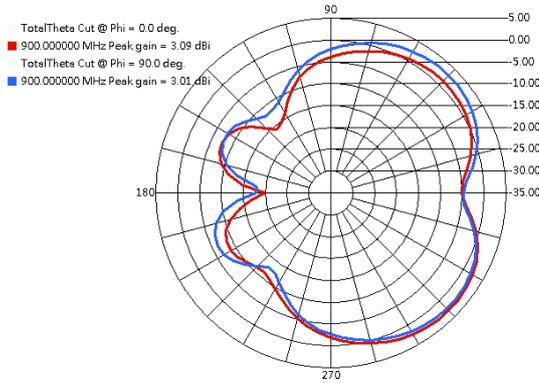


a. Return Loss (With ground plane)

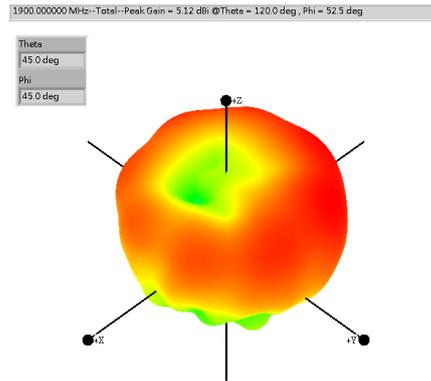
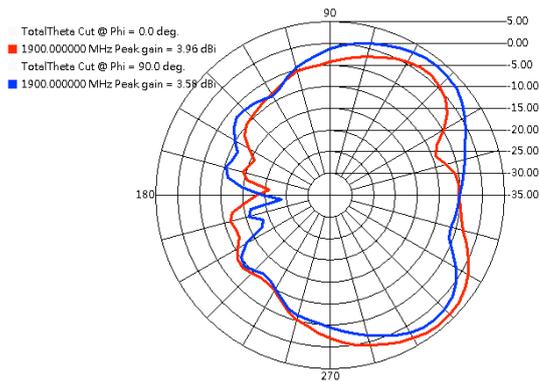


b. Gain Pattern (With ground plane)

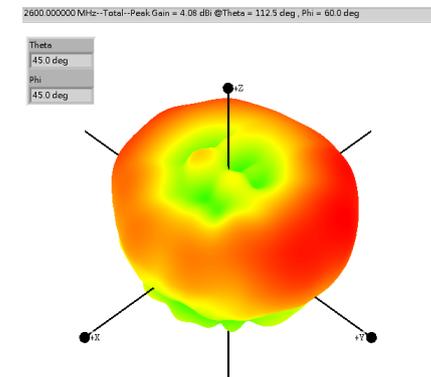
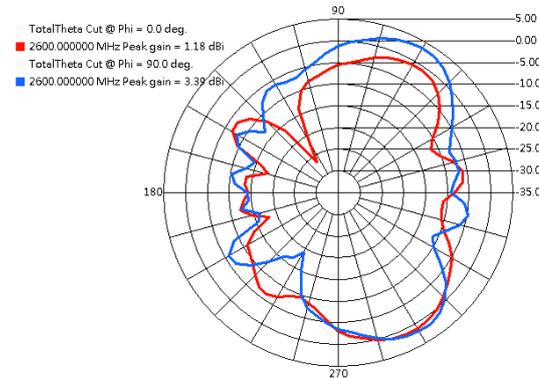
Frequency: 900MHz



Frequency: 1900MHz

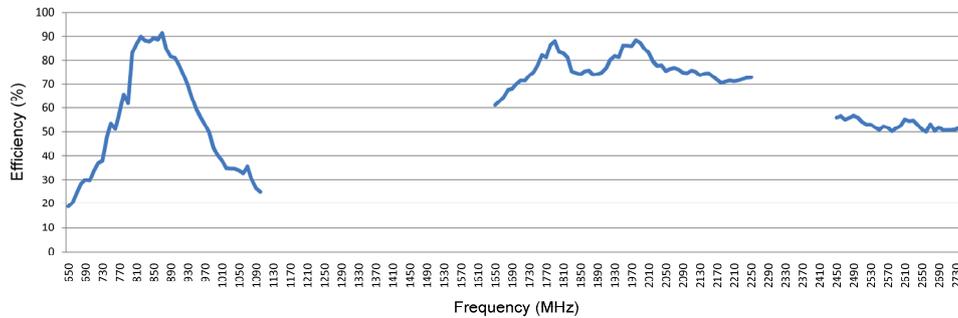


Frequency: 2600MHz

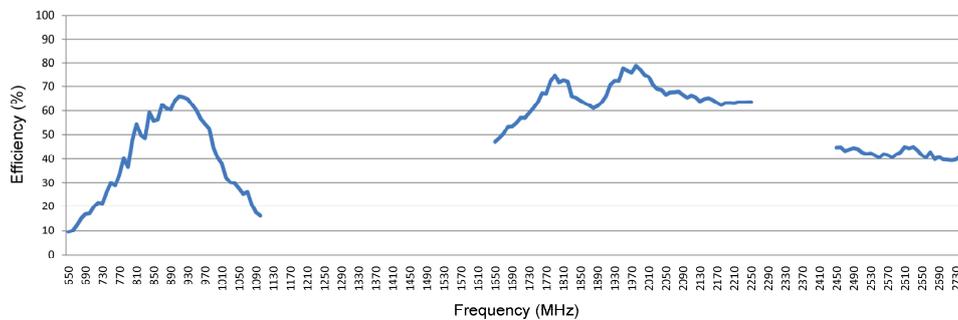


c. Antenna Efficiency

With Ground Plane

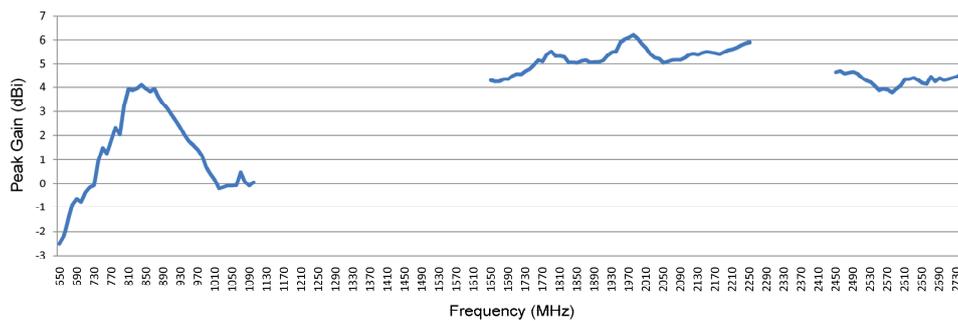


Without Ground Plane

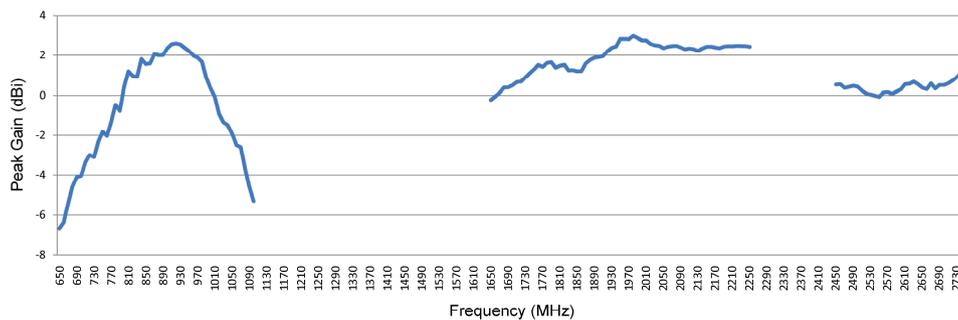


d. Antenna Peak Gain

With Ground Plane



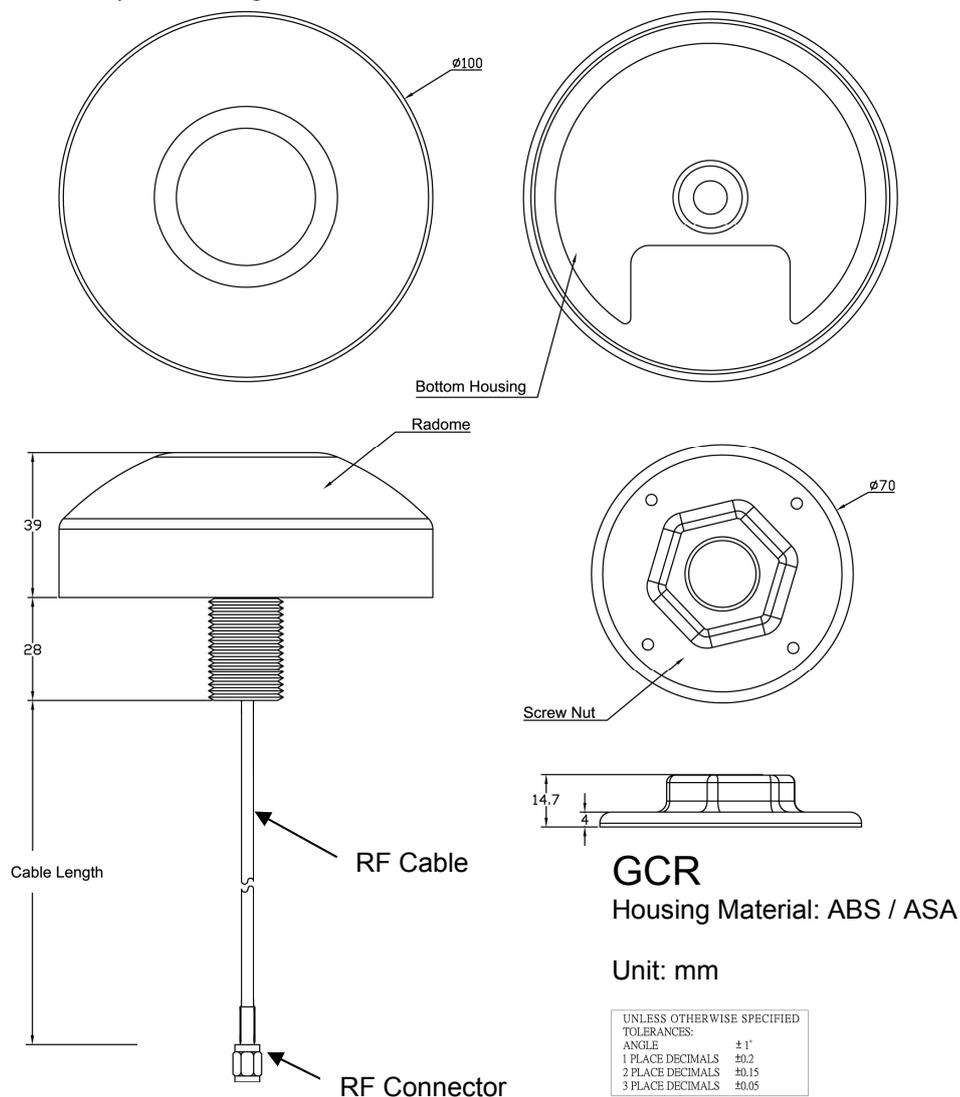
Without Ground Plane



2. Mechanical Specifications

Weight (Without Cable)	280 grams Max.
Housing Material	ABS / ASA (Option)
Size	100mm Dia.× 67mm
Connector	Option
RF Cable	Option
Tolerance of RF Cable Length	Longer than 500mm: +(2%xCable Length)/-0
	Shorter than 500mm: +5mm/-0
Mounting	Permanent mount
Housing Color	White

Note: Specifications subject to change without notice.



3. Environmental Specification

Working Temperature	-40°C < T < +85°C
Storage Temperature	-50°C < T < +85°C
Humidity	95%~100% RH
Degrees of Protection	IP56 / IP67 (Option)

Note: Specifications subject to change without notice.