

# ALLISCOM

## GCRC2

### LTE/ GSM/ WCDMA

## Data Sheet



**Model No.** GCRC2

**Features** Delivers high performance for 2G / 3G / 4G  
LTE / GSM / DCS / PCS / GPRS / EDGE / WCDMA  
680~800 / 824~960 / 1710~2170 / 2500~2690 MHz  
Waterproof IP56 / IP67 (Option)  
RoHS Compliant

**Description** The GCRC2 is a high performance and quality antenna for 2G/3G/4G applications. The antenna features high efficiency and meet all of the 4G LTE performance standards. The RF connector and cable length can be customized as required.

# 1. Antenna Performance

## 1.1 Performance

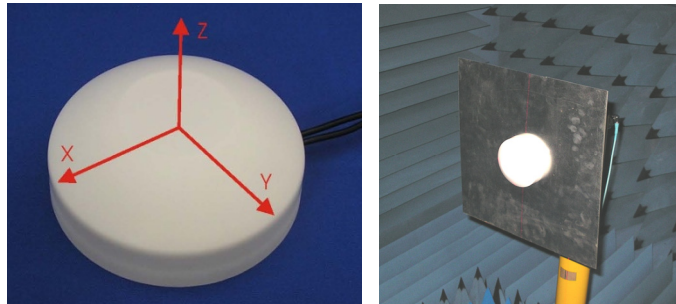
### Cellular Antenna:

Frequency (MHz)		680~800	824~960	1710~1990	1920~2170	2500~2690
VSWR Max.		3.0:1	3.0:1	3.0:1	3.0:1	3.0:1
Average Gain (dBi)	with Ground Plane*	2	1	4.5	5	4
	w/o Ground Plane	0	1	2	2	0
Average Efficiency (%)	with Ground Plane	65	55	75	75	45
	w/o Ground Plane	45	50	65	60	35
Peak Gain (dBi)	with Ground Plane	3	3	5	5	4
	w/o Ground Plane	2	2.5	3	3	0

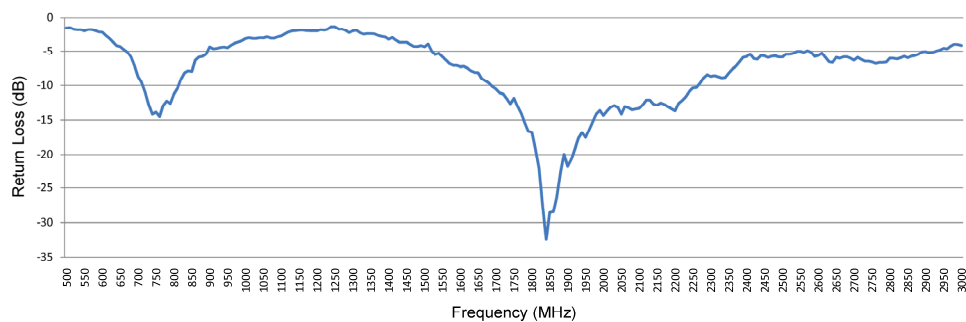
\* : 40x40cm Ground Plane

Note: Specifications subject to change without notice.

## 1.2 Antenna Measurement

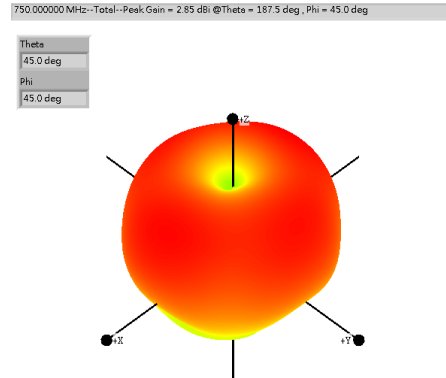
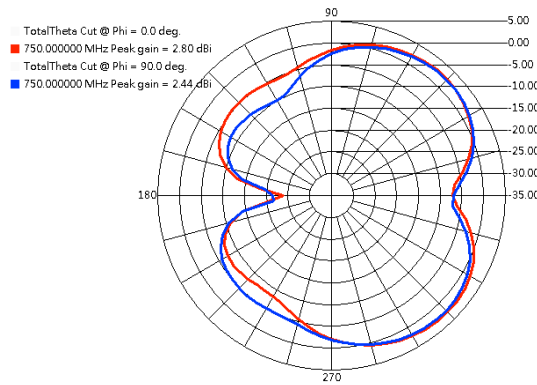


### a. Return Loss (With ground plane)

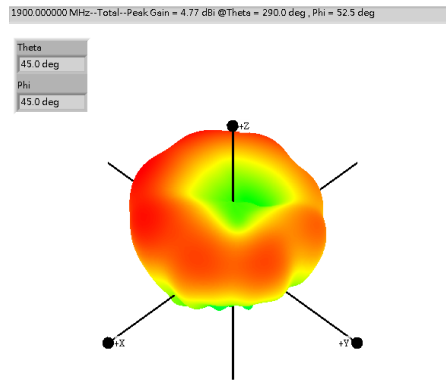
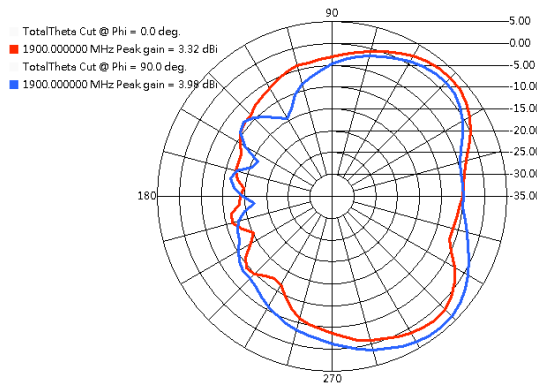


b. Gain Pattern (With ground plane)

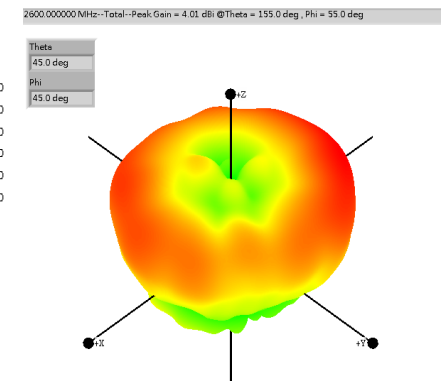
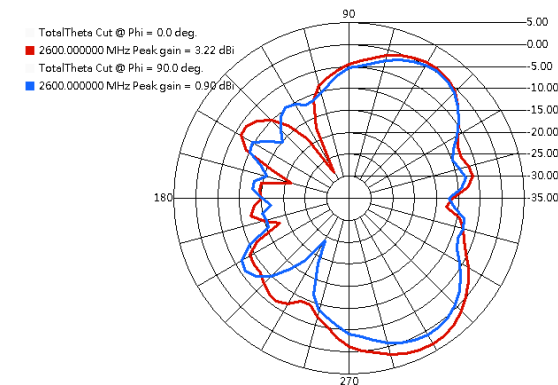
Frequency: 750MHz



Frequency: 1900MHz

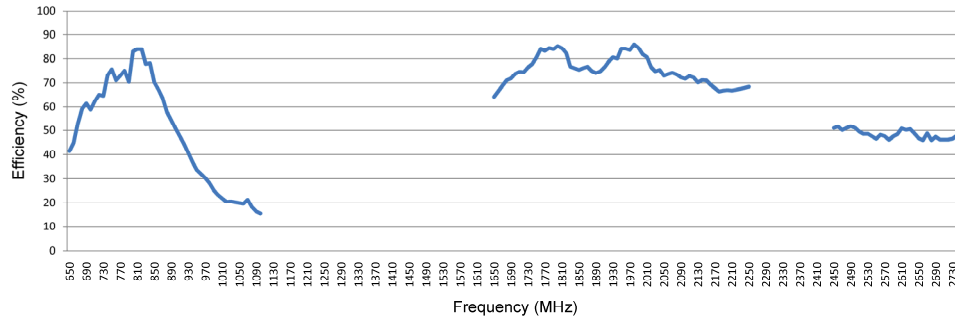


Frequency: 2600MHz

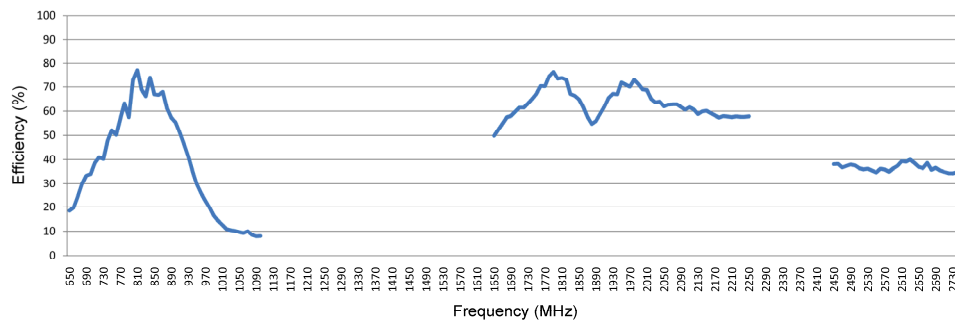


### c. Antenna Efficiency

With 40x40cm Ground Plane

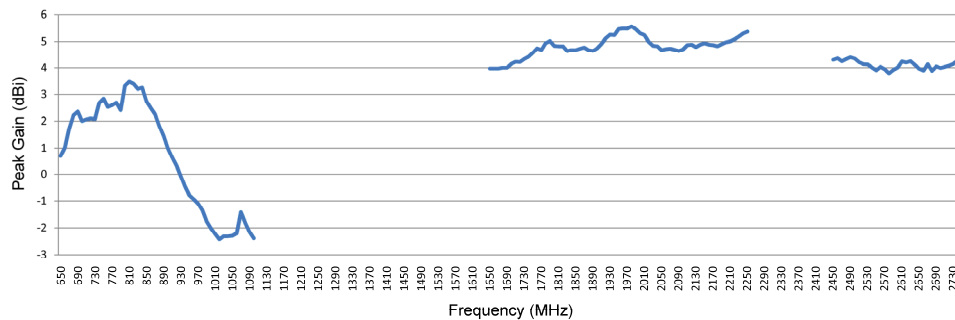


Without Ground Plane

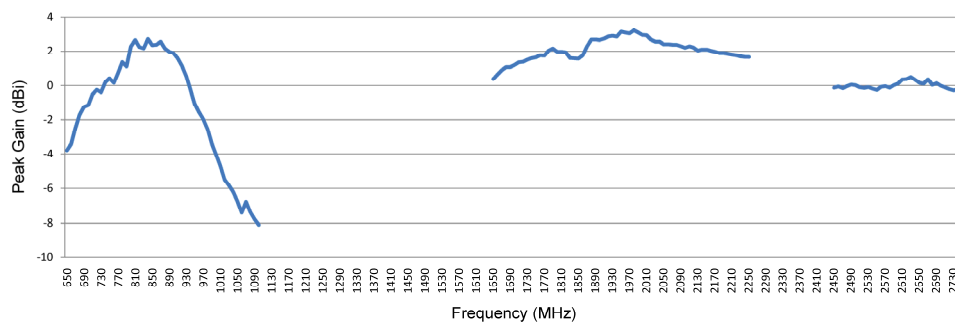


### d. Antenna Peak Gain

With 40x40cm Ground Plane



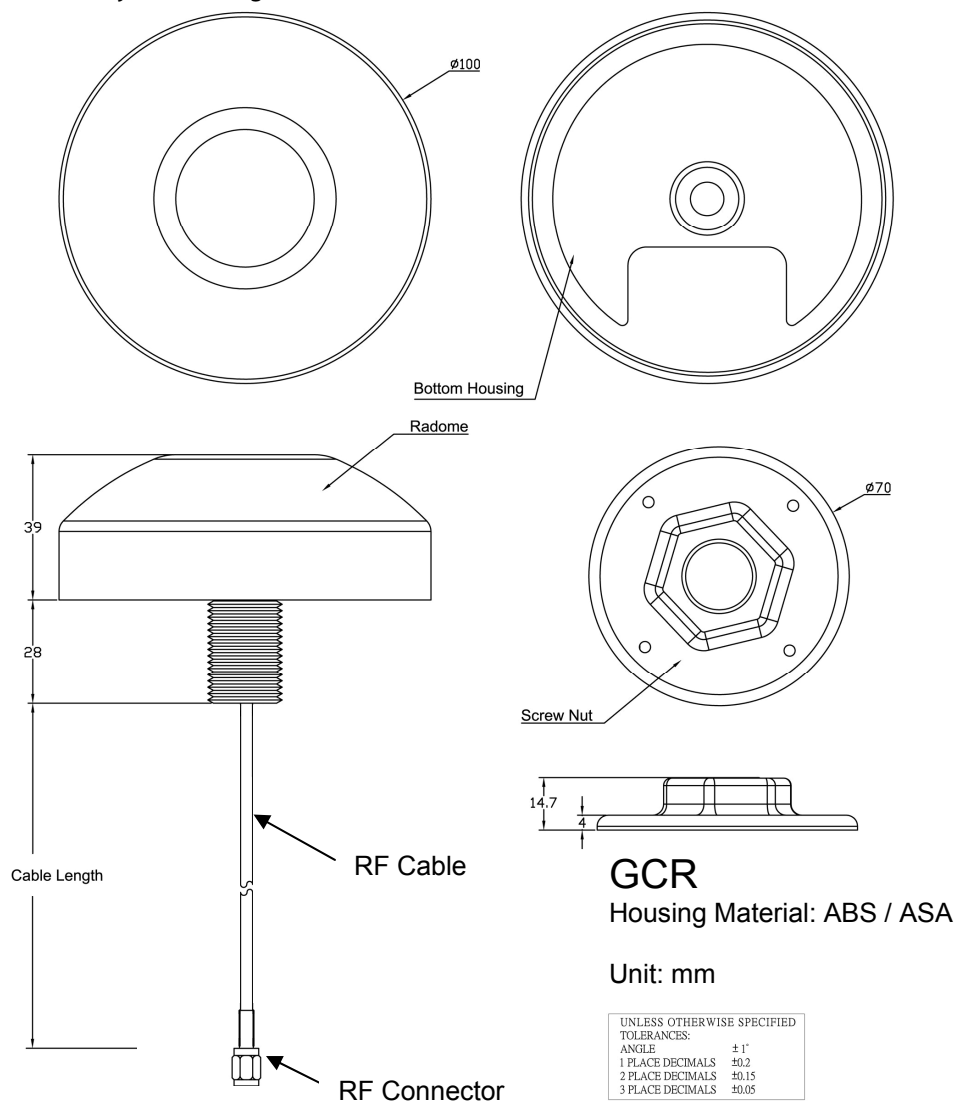
Without Ground Plane



## 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.