

**ComAp:  
3G & GPS Antenna**



Order code: OT1A3GGPACX

**Combined antenna 3G and GPS (adhesive mount)**

# Datasheet

## Key Features

- ▶ Cable 1: CELLULAR
  - 824-960 MHz
  - 1710-2170 MHz
- ▶ Cable 2: GPS/GLONASS/QZSS/Galileo
  - 1575-1606 MHz
- ▶ Cable length: 4m
- ▶ Adhesive Mount
- ▶ Connector type: SMA-Male Standard
- ▶ RoHS
- ▶ Ground Plane Independent

**Note:** The antenna is equipped with 10K resistor for antenna detection is available.

## Technical data

### Antenna and electrical specifications

Cable 1		
Parameters	CELLULAR Antenna	
Standards	2G and 3G	
Band (MHz)	850/900	1700/1800/1900/2100
Frequency (MHz)	824-960	1710-2170
Return Loss (dB)	~-16.8	~-18.3
VSWR	~1.4:1	~1.3:1
Efficiency (%)	~57	~49
Peak Gain (dBi)	~3.0	~1.3
Average Gain (dB)	~-2.4	~-3.0
Impedance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	400 cm Standard (Any Cable Length Available)	
Cable Type	LMR100 Standard (Other Cables Available)	

Cable 2		
Parameters	GPS/GLONASS Antenna	
Standards	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency (MHz)	1575.42	1598-1606
Patch Size (mm)	25 x 25 x 4	
Return Loss (dB)	<=-15 dB	
VSWR	<=1.4:1 dB	
Impedance	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter	pre-filter	
Active Gain (dB)	28 @ 2.7 V	
Noise Figure (dB)	1.5 Typ	
Voltage (V)	1.5 – 3.6	
Current (mA)	9 Typ	

Cable 2	
Parameters	GPS/GLONASS Antenna
ESD Protection	2kV
Power Consumption (mW)	24.3 Typ
Connector Type	SMA-Male Standard (Other Connectors Available)
Cable Length	400 cm Standard (Any Cable Length Available)
Cable Type	LMR100 Standard (Other Cables Available)

### Antenna Measurement Conditions

Mounted on 30 x 30 x 0.25 cm ABS Plate

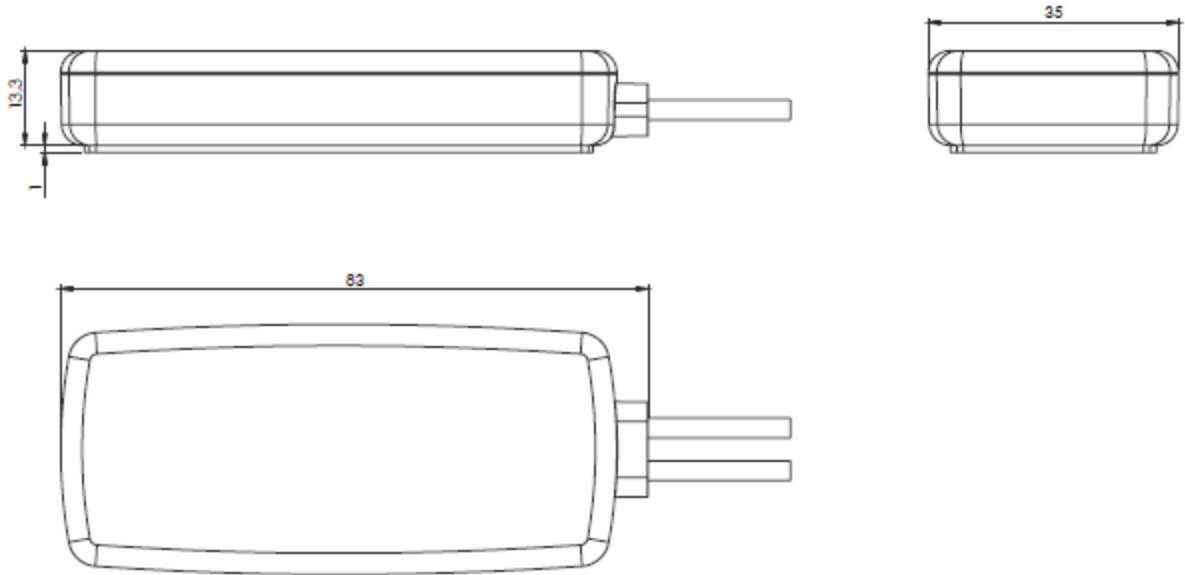
200 cm of Cable LMR100

Measured in Certified CTIA 3D Anechoic Chamber

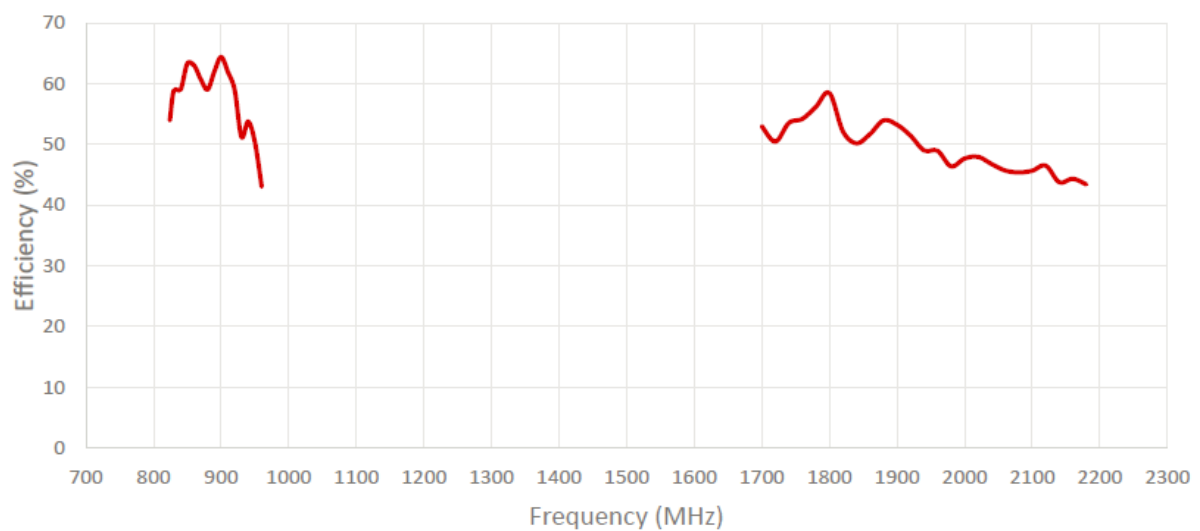
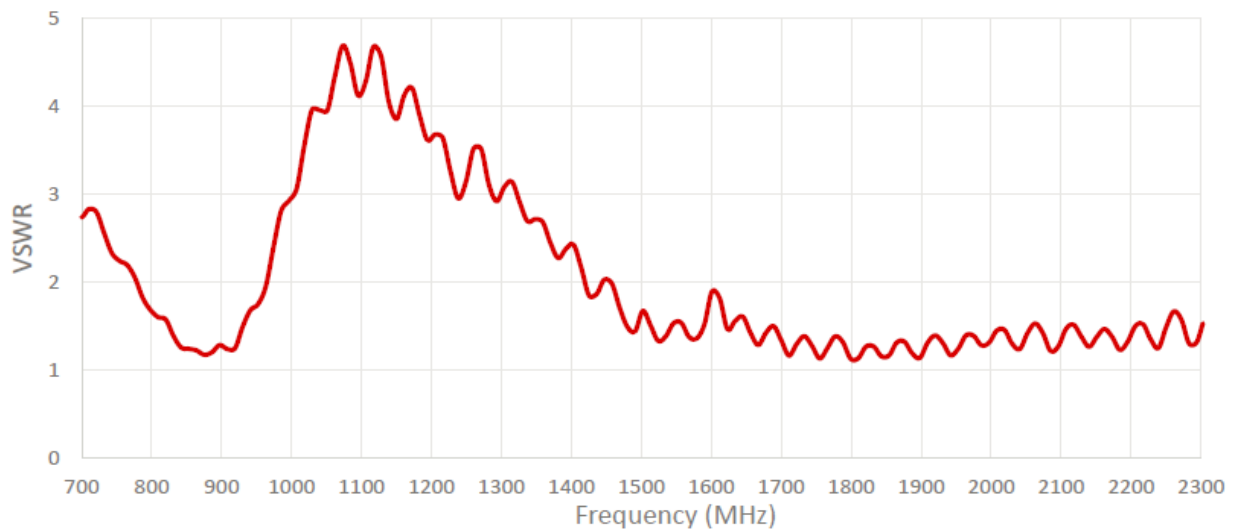
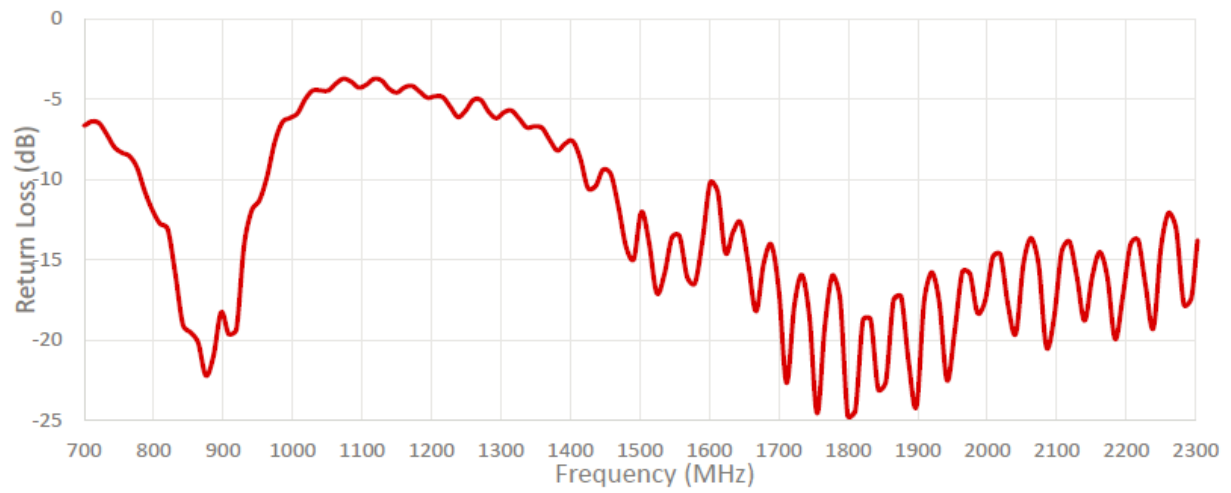
### Mechanical and environmental specifications

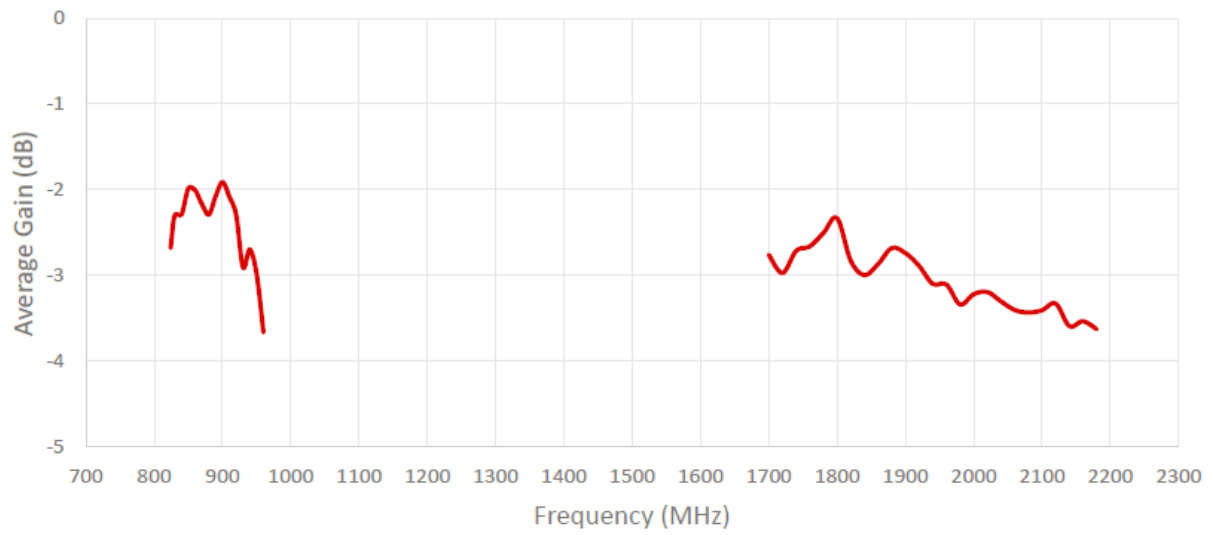
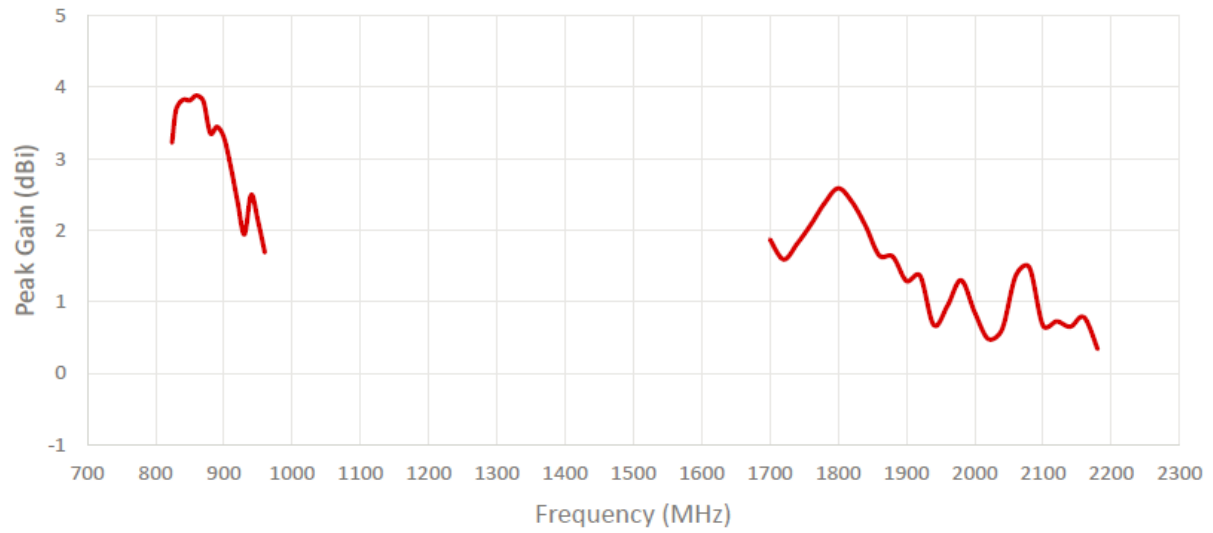
Specifications	2J4800PG
Mounting Type	Adhesive Mount
Dimensions (mm)	83 x 35 x 13.3
Radome	ABS UV Stable
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

## Dimensions, terminals and mounting



## Related informations

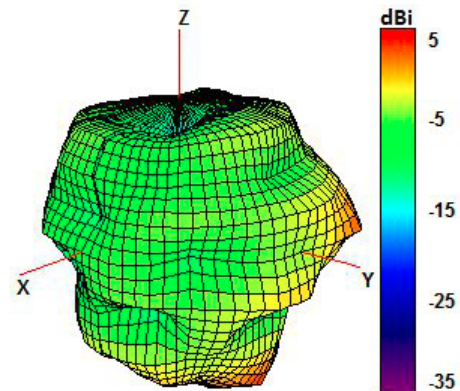
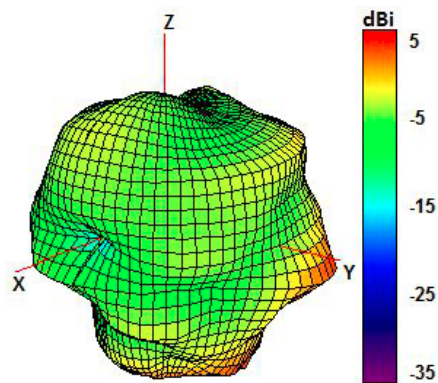




## Radiation pattern

850 MHz

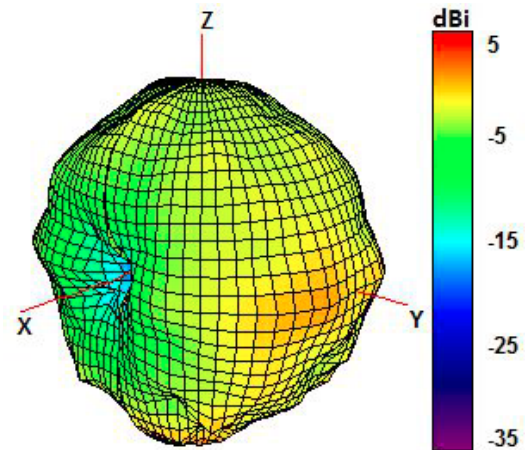
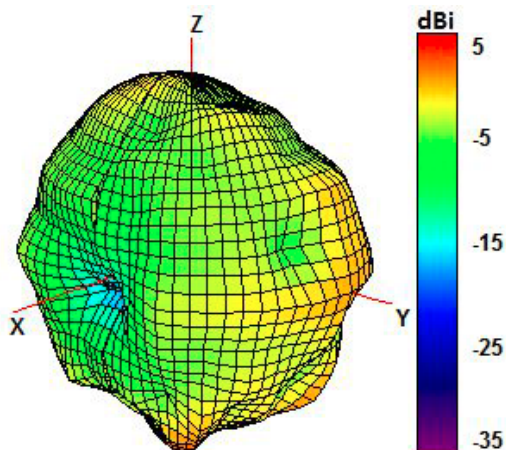
940 MHz



## Radiation pattern

1750 MHz

1850 MHz



## Radiation pattern

1950 MHz

2100 MHz

