SUNTSU

Outdoor Antenna

SATOA-81G81G16C-CMB6

81.6mm x 81.6mm x 16.2mm

Features

- GPS & LTE
- Outdoor Antenna
- 50 Ohm Impedance
- Stable And Reliable Performance
- 1572-1610MHz, 698-960MHz, 1710-2690MHz

Applications

- Vehicle Tracking
- Asset Tracking
- GPS Navigation
- Machine To Machine Communication

Part Numbering Guide

S AT OA 81G81G16C CM B6

- **S** — SUNTSU
- **AT** — ANTENNA
- **OA** — OUTDOOR ANTENNA
- **81G81G16C** — PACKAGE SIZE*: 81G81G16C = 81.6mm x 81.6mm x 16.2mm
- **CM** — APPLICATION: CM = Combo
- **B6** — FREQUENCY: B6 = 1572-1610MHz, 698-960MHz, 1710-2690MHz

RoHS COMPLIANT

Electrical Parameters (GNSS)	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	1572		1610	±1MHz
Impedance	Ω		50		
Polarization			RHCP		
Peak Gain	dBi		2		For Dielectric Antenna
VSWR				1.5	For Dielectric Antenna
Peak Gain	dBi	26	28	30	For LNA Antenna
VSWR				2	For LNA Antenna
Noise Figure	dB			1.5	For LNA Antenna
Supply Voltage	V DC	3		5	For LNA Antenna
Current Consumption	mA			15	For LNA Antenna

Electrical Parameters (LTE)	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	698		960	
Frequency Band	MHz	1710		2690	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		2.5		LTE Antenna MAIN
Peak Gain	dBi		2		LTE Antenna AUX
VSWR				3	At Center Frequency

Environmental Specifications		Mechanical Specifications	
Operating Temperature	-40°C ~ 85°C	Cable	RG174
Relative Humidity	Up to 95%	Connector	SMA/FAKRA or Others
Ingress Protection	IP67	Material	ABS
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours	Mounting Method	Adhesive/Magnet

www.suntsu.com

Specifications are subject to change without notice.

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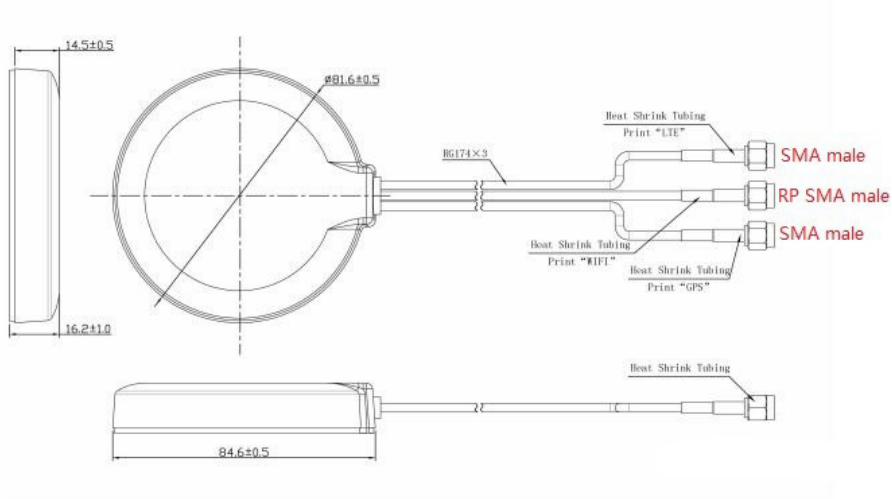
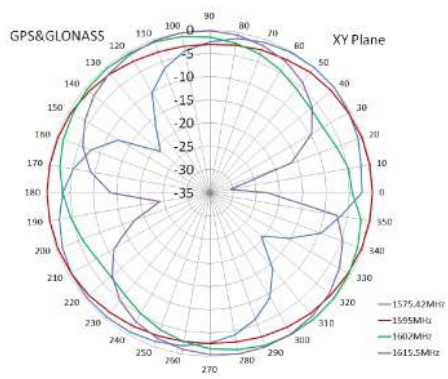
Outline Drawing

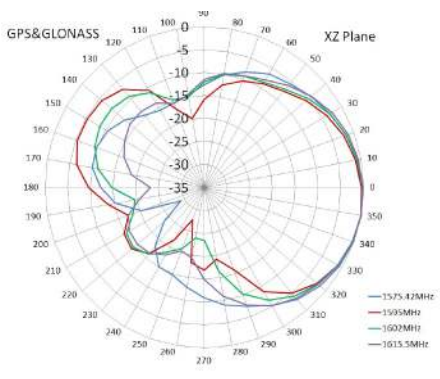
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



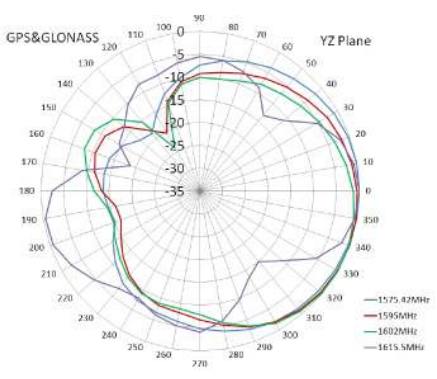
Radiation Pattern (GPS XY)



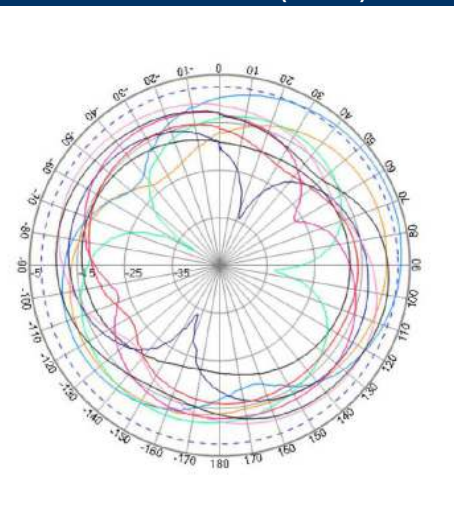
Radiation Pattern (GPS XZ)



Radiation Pattern (GPS YZ)



Radiation Pattern (LTE XY)



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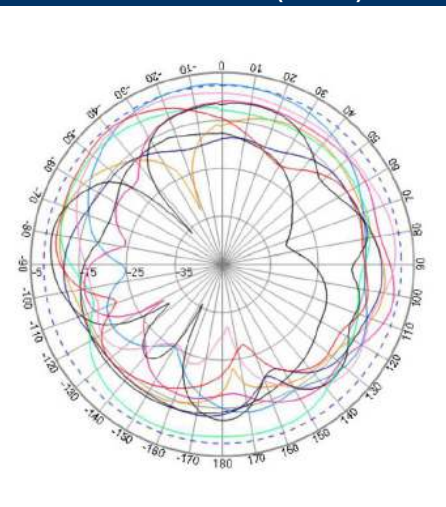
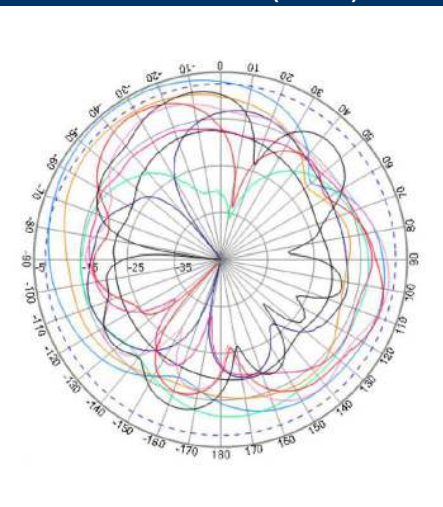


Radiation Pattern (LTE YZ)



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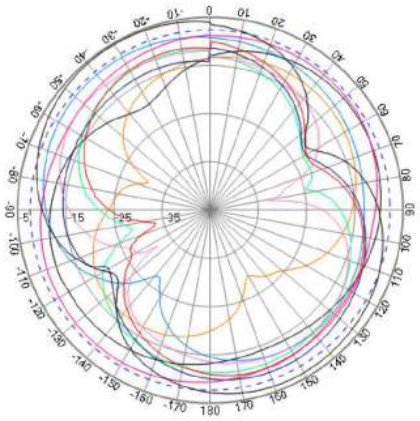
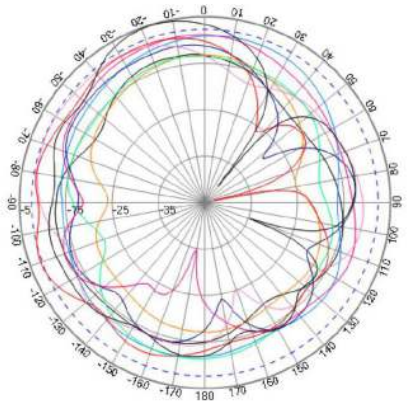
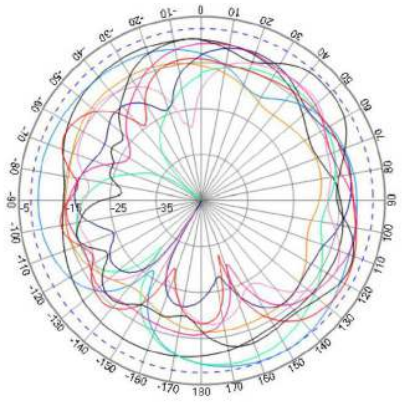
Radiation Pattern (LTE AUX XY)



Radiation Pattern (LTE AUX XZ)



Radiation Pattern (LTE AUX YZ)



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