



DATASHEET

TARVOS | SZW-N-5L37 | IP67 Terminal | 4GLTE / RedCap

Features:

4G LTE: 698-2690MHz
>3.0dBi Peak Gain, >50% Efficiency

Dimensions: 195 x Ø13.0mm
Connector: SMA Male
IP 67
RoHs Compliant

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Introduction

TARVOS is a compact terminal antenna designed for reliable wideband cellular performance in a fully sealed IP67 enclosure. The structure uses a PC and PBT composite housing with internal brass and copper elements that support stable operation across 698 to 960 MHz and 1710 to 2700 MHz with a nominal peak gain of 2 dBi. The design features a sealed swivel joint that maintains IP67 protection even when positioned or rotated, supported by O ring sealing and reinforced mechanical interfaces. TARVOS provides installation flexibility, consistent RF performance, and long-term environmental durability for both indoor and outdoor deployments.

Features

- Wideband coverage across 698 to 960 MHz and 1710 to 2700 MHz
- IP67 protection with sealed swivel joint and O ring interface
- Terminal form with adjustable angle for optimal positioning
- SMA male connector with reinforced sleeve for mechanical strength
- Internal brass tube and copper radiating structure for stable performance
- Nominal 2 dBi gain
- Compact and lightweight assembly suitable for space constrained equipment
- ROHS 2.0 compliant materials and construction

Applications

- 4G and 5G RedCap routers and IoT gateways
- Industrial control equipment
- SCADA and telemetry systems
- Security panels and alarm communicators
- Smart metering devices
- Agricultural and environmental monitoring nodes
- Transportation and mobile asset tracking systems
- Remote sensing and outdoor IoT installations



Mechanical Specifications

Parameter	
Part Number	SZW-N-5L37
Name	TARVOS
Dimensions (mm)	195 x Ø13.0
Dimensions (mm) 90°	172 x Ø13.0
Antenna Type	Terminal Hinged

Electrical / RF Specifications

Band	Frequency Range (MHz)	Average Efficiency (%)	Peak Gain (dBi)	VSWR (worst case)	Impedance
5GNR/4G LTE B5,8,12,13,14,17,18,20,26,27,28,29	617-960	45.0	2.26	4.40:1	50 Ω
5GNR/4G LTE B1,2,3,4,9,23,35,39,66	1710-2200	50.0	2.43	3.17:1	
5GNR/4G LTE B40	2300-2400	78.0	1.59	2.07:1	
5GNR/4G LTE B7,38,41	2490-2690	50.0	0.01	2.53:1	

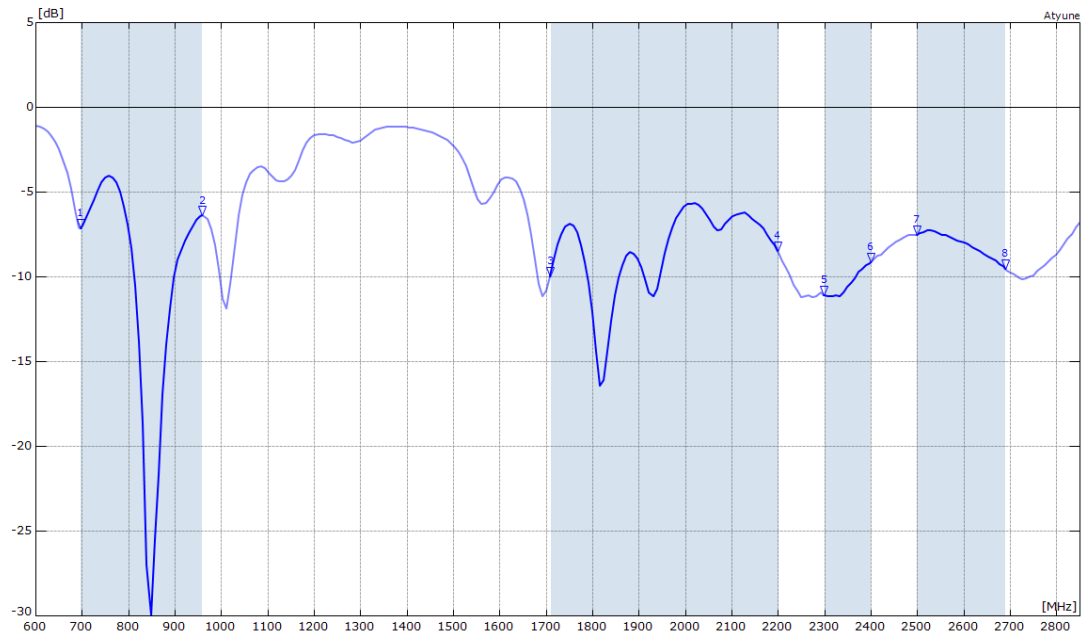
Environmental

Parameter	
Operational Temperature	-30 to +65°C
Storage Temperature	-40 to +70°C
IP Rating	IP67
RoHs and REACH compliant	Yes

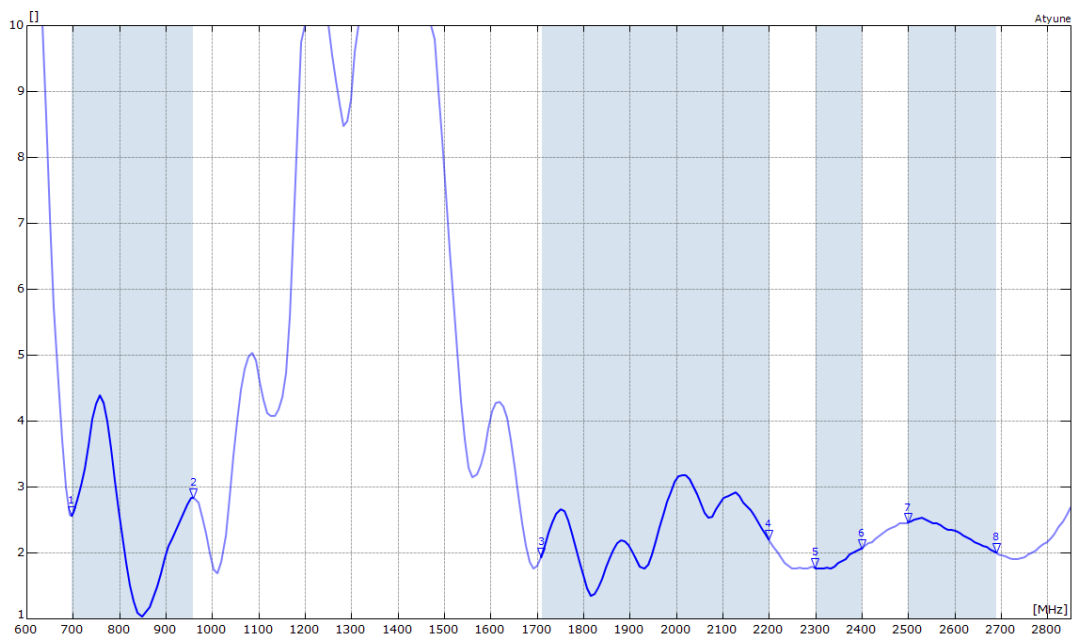


RF Characteristics

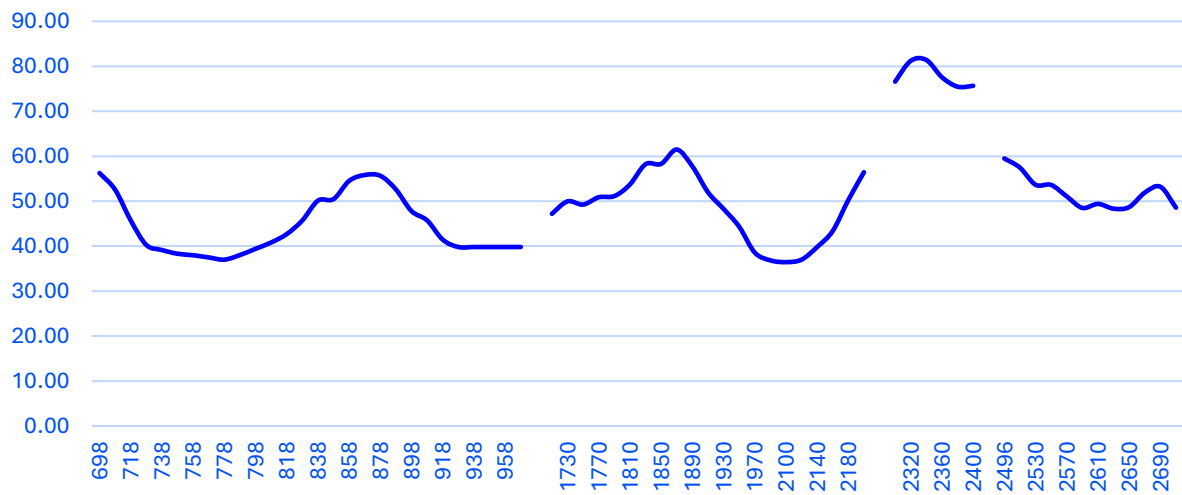
Return loss



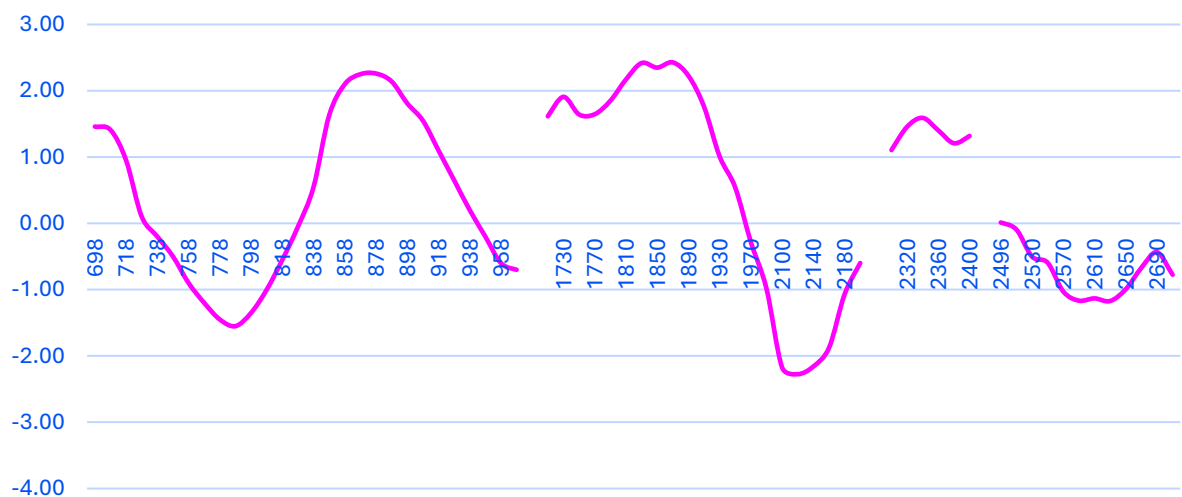
VSWR



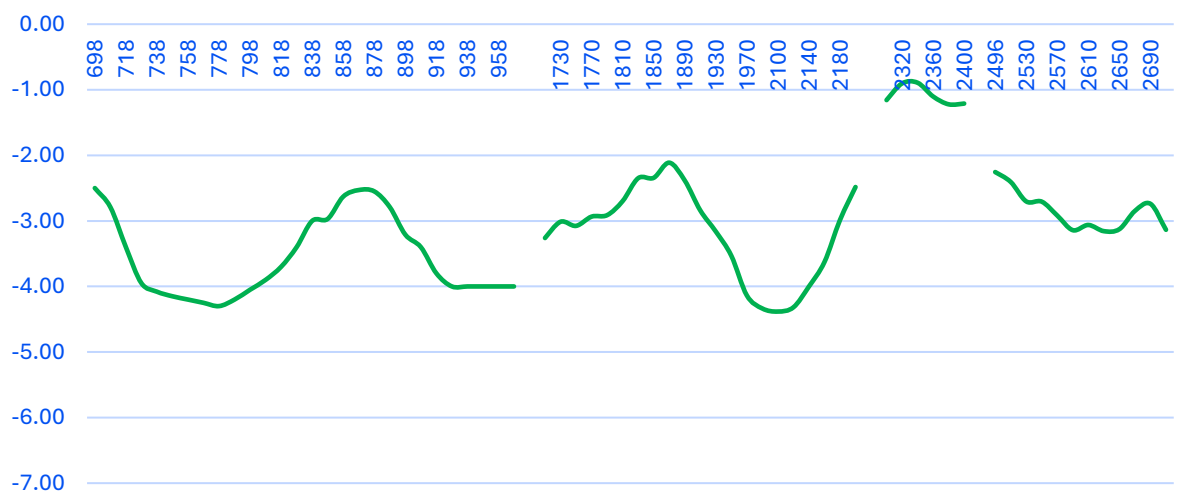
Efficiency



Peak Gain

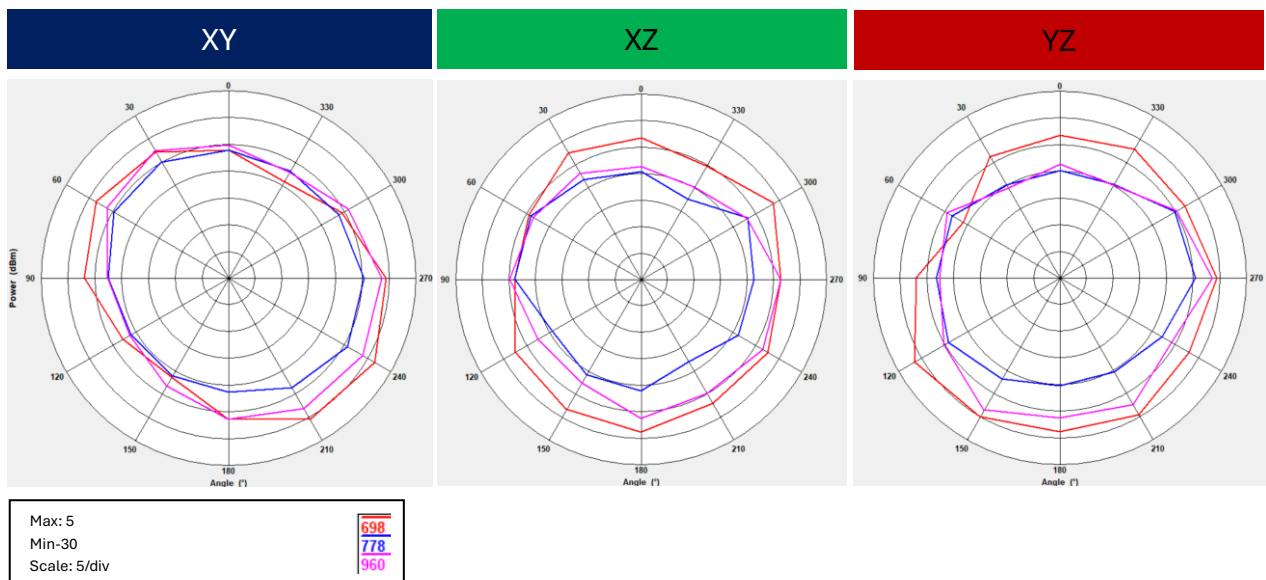
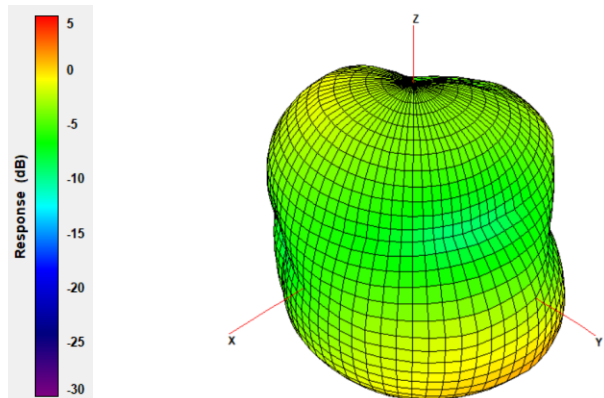


Average Gain

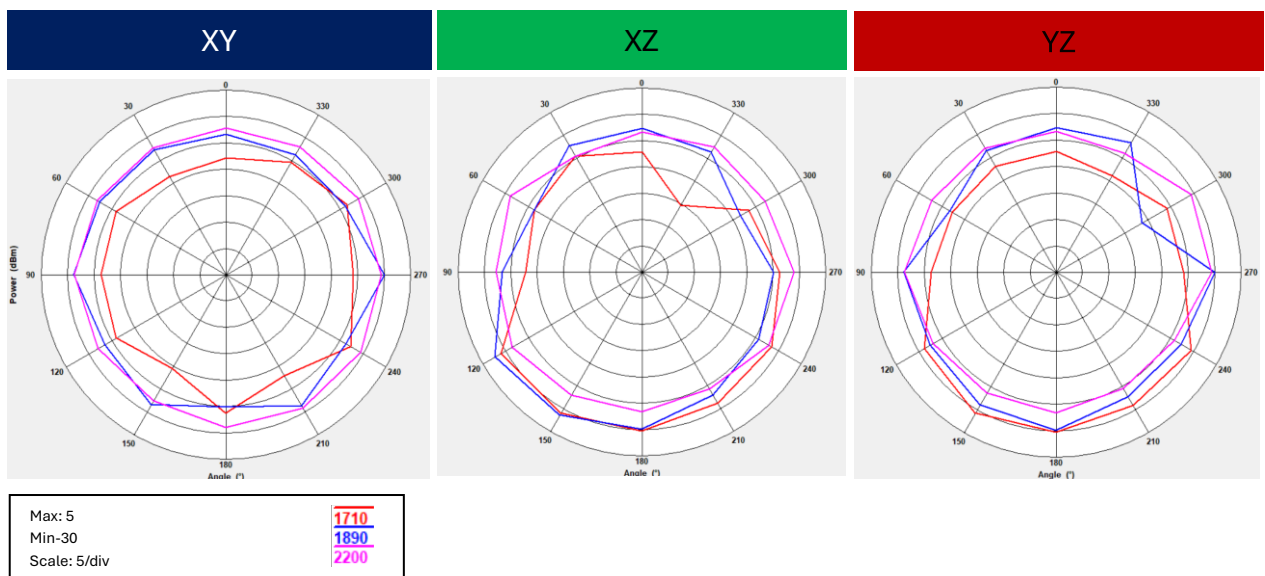
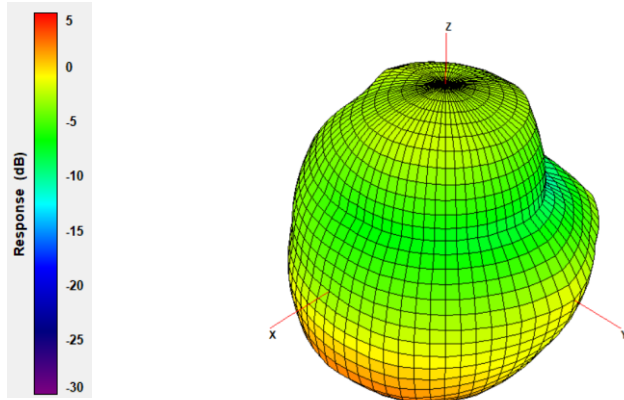


RF Radiation Patterns

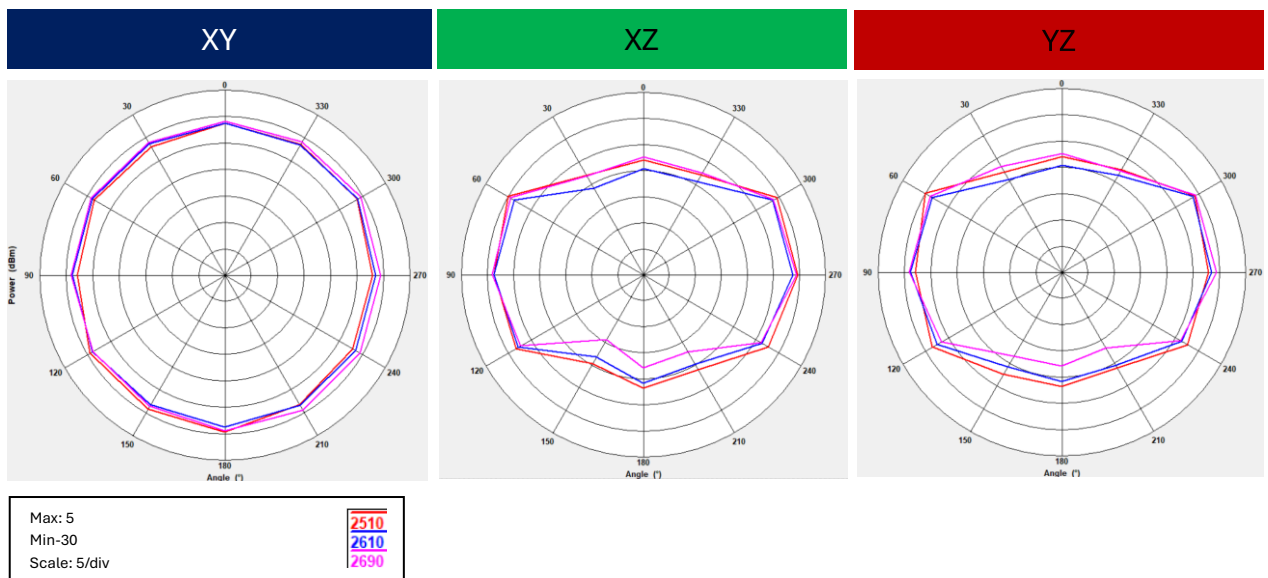
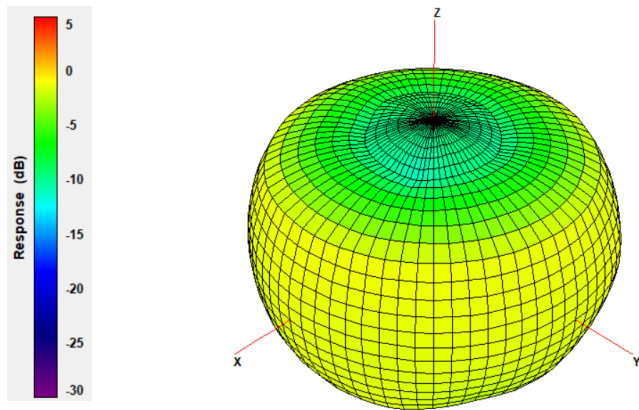
RF Radiation Patterns at 880MHz



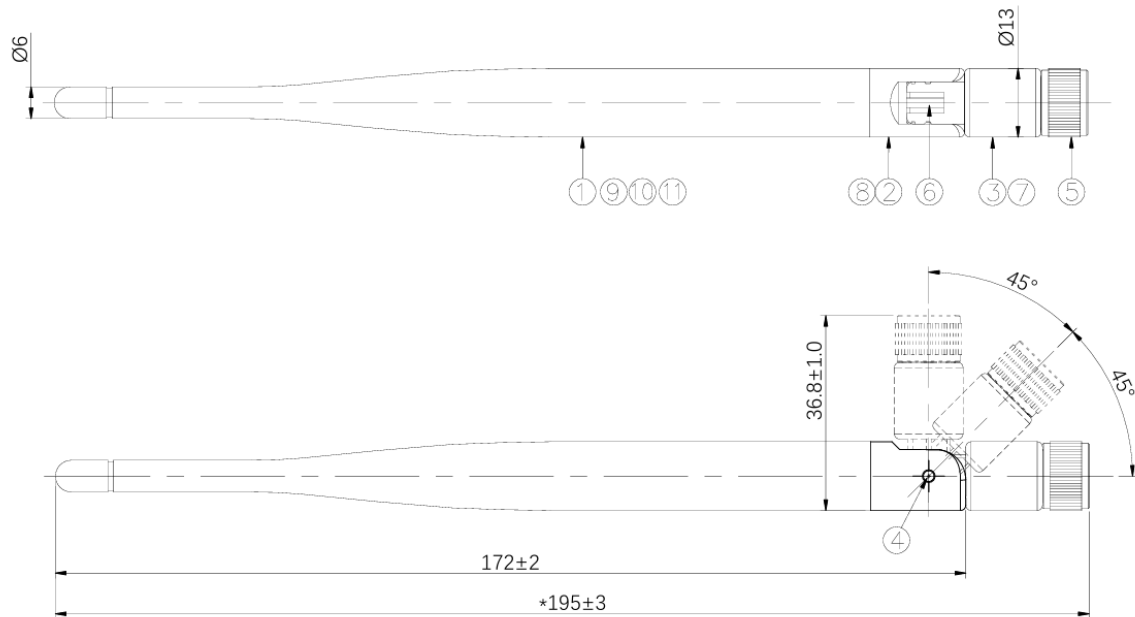
RF Radiation Patterns at 1880MHz



RF Radiation Patterns at 2600MHz



Mechanical Drawing



.Waterproof: IP67

.These Products are in conformity with ROHS 2.0

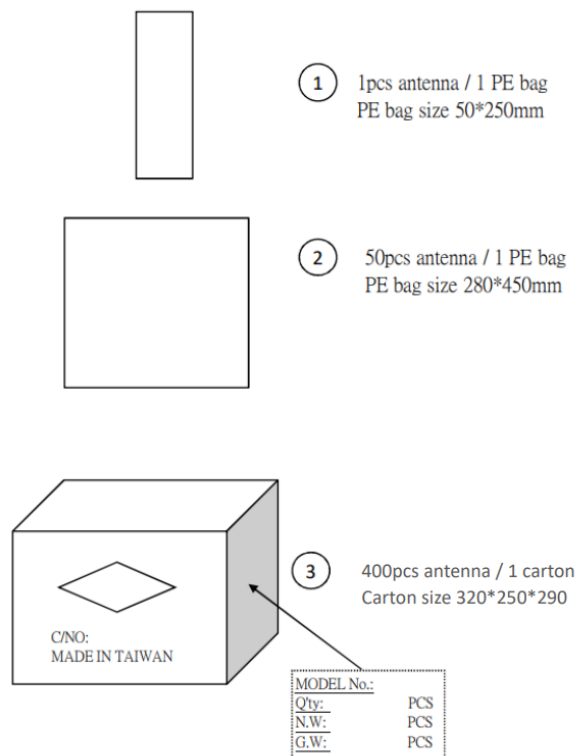
.Dimensions marked "*" should be strictly controlled

.Connector in the product meets salt spray test 48H

11	Tube	Heat shrinking tube;Black	1
10	Wire	Copper wire;Ø0.6mm	1
9	Tube	Brass-tube;Ø5.5mm	1
8	O-ring	O-ring	1
7	Tube	Heat shrinking tube;With glued;Black	1
6	Cable	RG-178 50 Ohm Translucent Brown	1
5	Connector	Big SMA,Male;Black plastic screw sleeve	1
4	Rivet	POM,Color:Black	2
3	Antenna Base	PC+PBT,Color:Black	1
2	Antenna Base	PC/PC+PBT,Color:Black	1
1	Antenna Body	TPEE,Color:Black	1
NO.	DESCRIPTION		Q'TY



Packaging



Material Regulation

The antenna has been assessed to conform to RoHS requirements. A certificate of conformance is available upon request.

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