



— LTE MAG MOUNT

TARVOS2

Magnetic Mount 4G LTE / 5G RedCap Antenna

SZW-N-5L38

FREQUENCY

698 to 960 / 1710 to 2690 MHz

PEAK GAIN

Up to 4.29 dBi

CONNECTOR

SMA Male, 3 m RG58

RATING

IP65

LOW BAND	698 to 960 MHz	Covers B5, B8, B12, B13, B14, B17, B18, B20, B26, B27, B28, B29
MID BAND	1710 to 2200 MHz	Covers B1, B2, B3, B4, B9, B23, B35, B39, B66
2.3 GHZ	2300 to 2400 MHz	Covers B40
2.6 GHZ	2500 to 2690 MHz	Covers B7, B38, B41

— Key Features

- Multi band operation supporting 5G RedCap
- Coverage across all key cellular bands from 698 to 2690 MHz
- High efficiency internal brass radiator system
- IP65 weather resistant enclosure for outdoor use
- Strong magnetic base for secure metal surface mounting
- Long low loss RG cable for flexible routing
- Stable VSWR across operating bands
- Rugged ABS and TPEE construction for long service life

1 Introduction

TARVOS2 is a high efficiency IP65 rated magnetic mount antenna developed for wideband cellular and broadband applications that require reliable multi-band performance and rapid installation. The antenna supports 5G RedCap in addition to LTE, GSM, UMTS and WCDMA, with continuous coverage across 698 to 960 MHz, 1710 to 2200 MHz, 2300 to 2400 MHz and 2500 to 2690 MHz. This wide operational range allows a single compact antenna to service a broad variety of modern wireless systems.

The housing incorporates a precision tuned internal radiator structure designed to maintain stable electrical performance in both indoor and outdoor environments. The integrated high strength magnetic base ensures secure mounting on metal surfaces, providing mechanical stability under vibration, movement and exposure to weather. A long low loss cable and SMA male connector allow flexible routing and placement while preserving signal integrity.

— Features

- ◆ Multi band operation supporting 5G RedCap
- ◆ Coverage across all key cellular bands from 698 to 2690 MHz
- ◆ High efficiency internal brass radiator system
- ◆ IP65 weather resistant enclosure for outdoor use
- ◆ Strong magnetic base for secure metal surface mounting
- ◆ Long low loss RG cable for flexible routing
- ◆ Stable VSWR across operating bands
- ◆ Rugged ABS and TPEE construction for long service life

— Applications

- | | |
|--|---|
| ◆ 5G RedCap gateways and industrial routers | ◆ Security and surveillance equipment |
| ◆ IoT edge devices and remote monitoring systems | ◆ Transportation and fleet management systems |
| ◆ Telemetry and telematics units | ◆ Fixed and mobile broadband equipment |

2 Mechanical Specifications

Part Number	SZW-N-5L38
Name	TARVOS2
Dimensions (mm)	269 × Ø 17.0 (Ø 65.0 base)
Antenna Type	Mag mount + Cable
Cable Length (mm)	3000, RG58, Black
Connector Type	SMA Male
Part Number with Cable and Connector	SZW-N-5L38-300-09
IP Rating	IP65

3 Electrical / RF Specifications

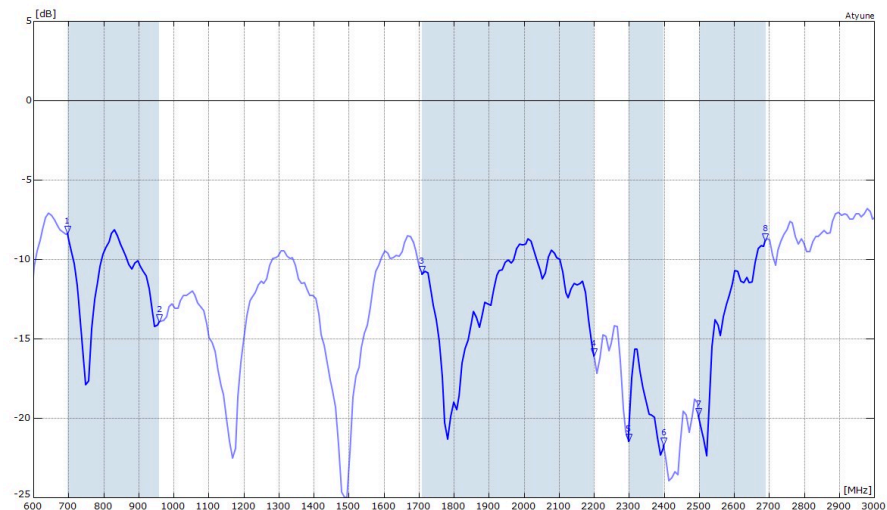
Band	Frequency Range (MHz)	Average Efficiency (%)	Peak Gain (dBi)	VSWR (worst case)	Impedance
5G NR / 4G LTE B5, 8, 12, 13, 14, 17, 18, 20, 26, 27, 28, 29	698 to 960	>60	3.80	2.50:1	50 Ω
5G NR / 4G LTE B1, 2, 3, 4, 9, 23, 35, 39, 66	1710 to 2200	>50	3.90	2.20:1	
5G NR / 4G LTE B40	2300 to 2400	>50	2.99	1.50:1	
5G NR / 4G LTE B7, 38, 41	2500 to 2690	>40	4.29	2.20:1	

4 Environmental

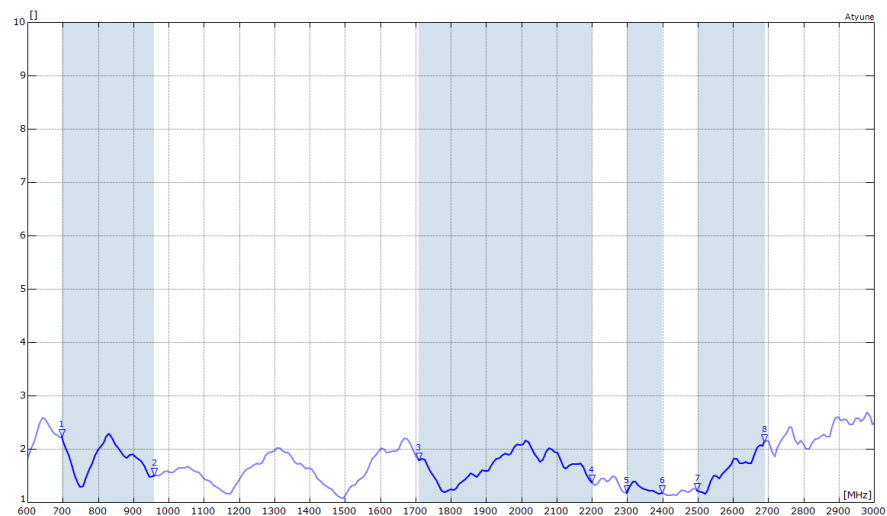
Operational Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
IP Rating	IP65
RoHS and REACH compliant	Yes

5 RF Characteristics

S11 Parameter



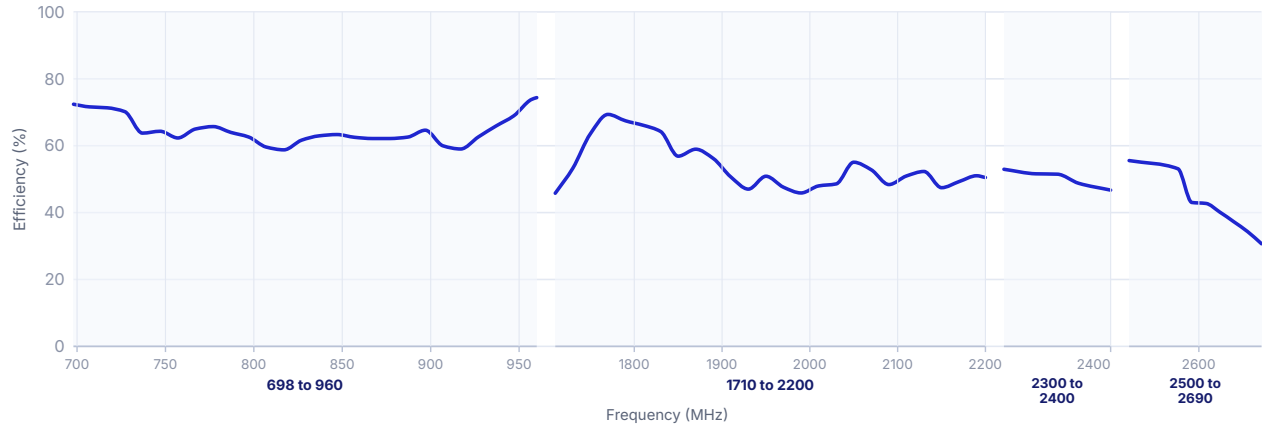
VSWR



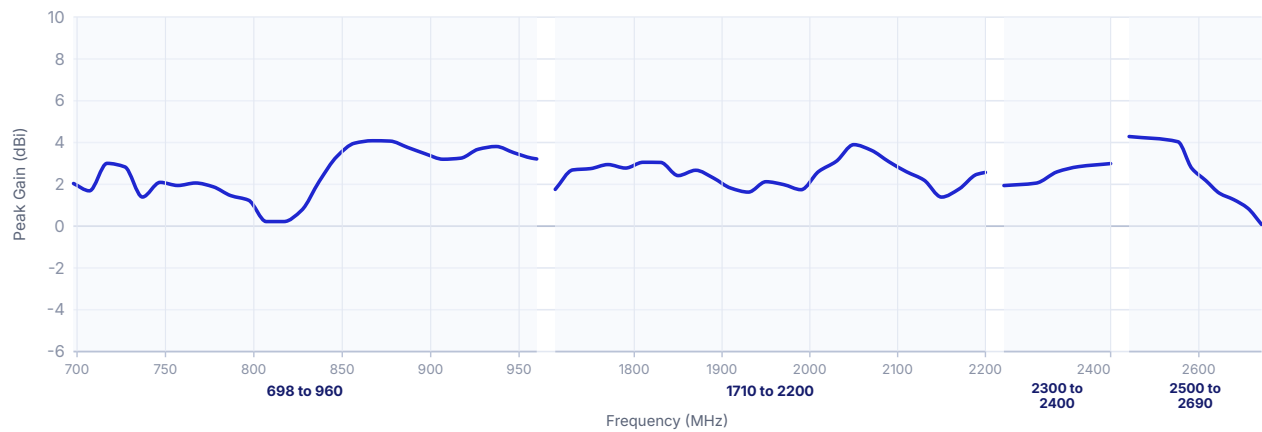
6

Antenna Performance

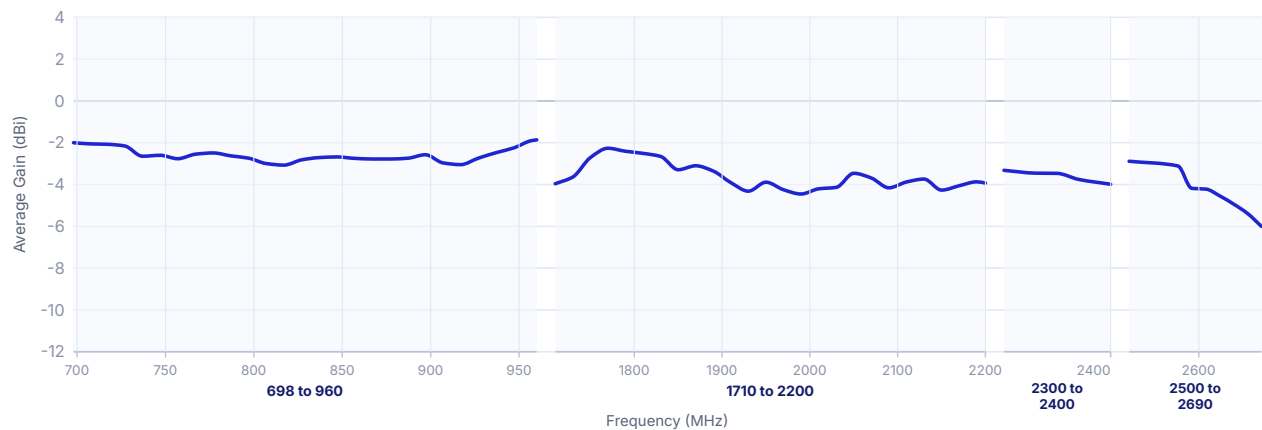
Efficiency



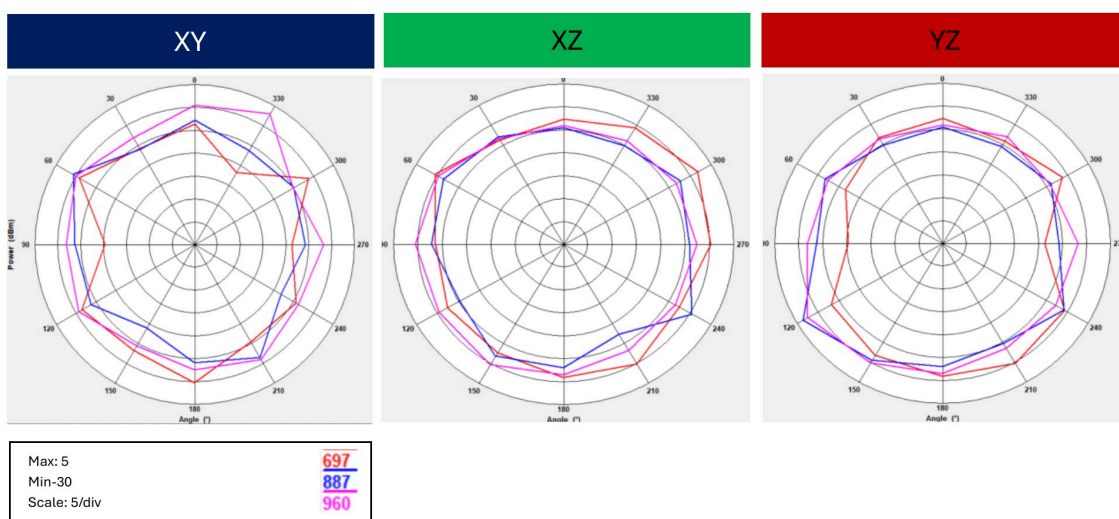
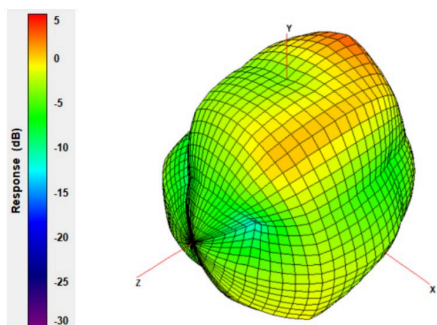
Peak Gain



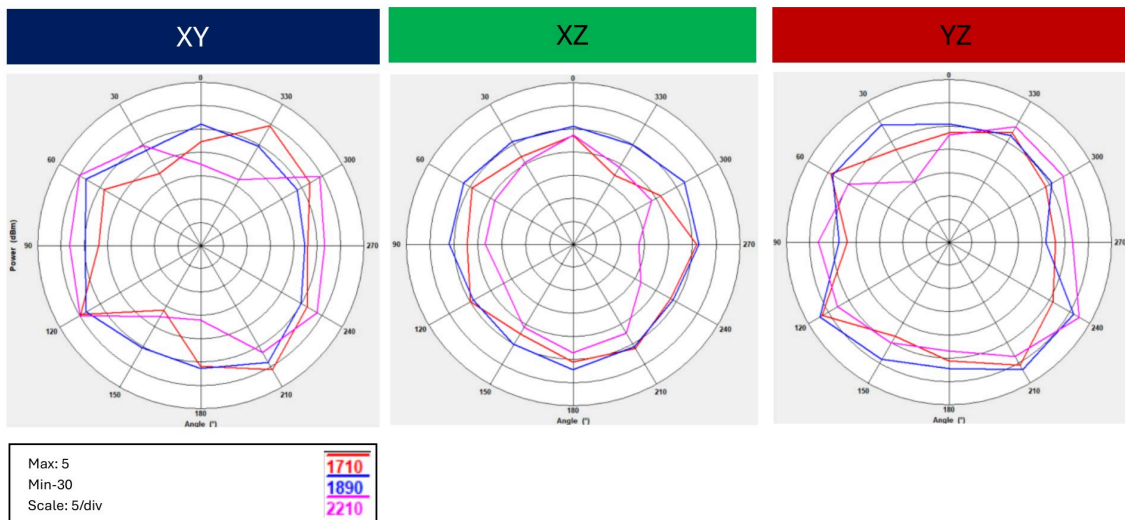
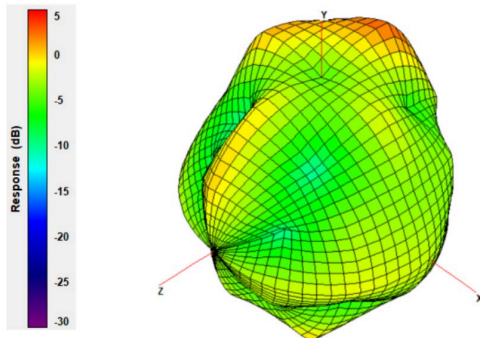
Average Gain



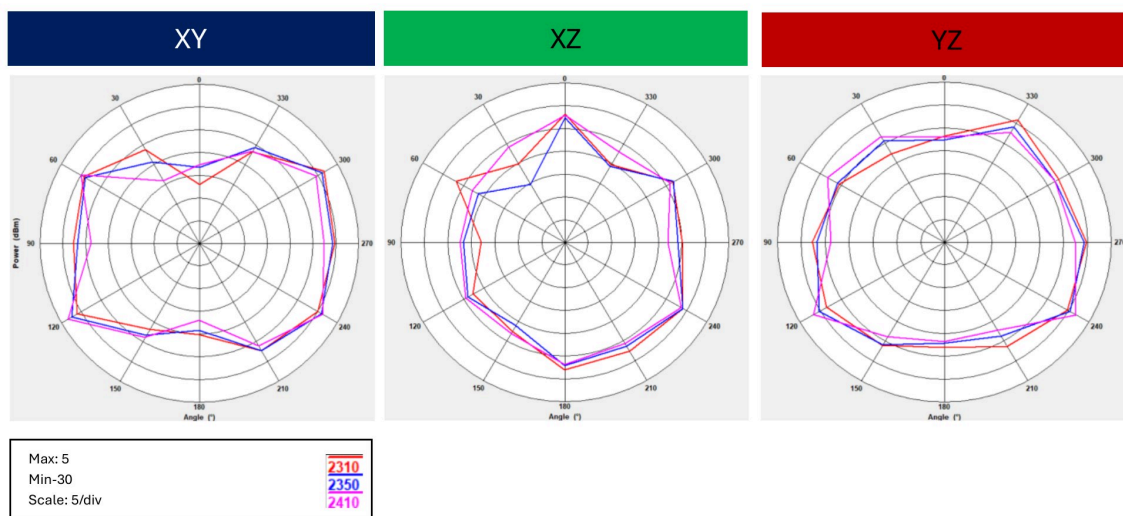
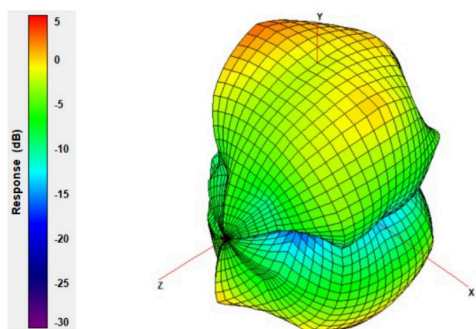
7 Radiation Patterns at 880 MHz



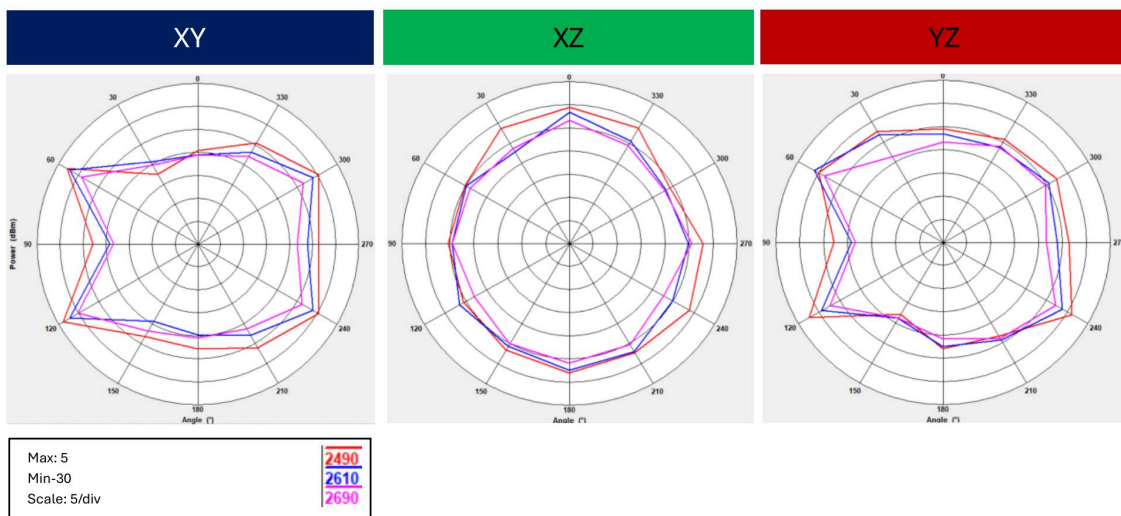
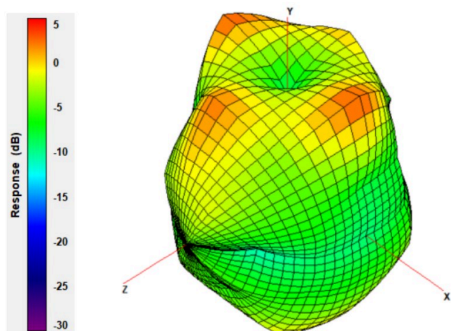
8 Radiation Patterns at 1880 MHz



9 Radiation Patterns at 2350 MHz

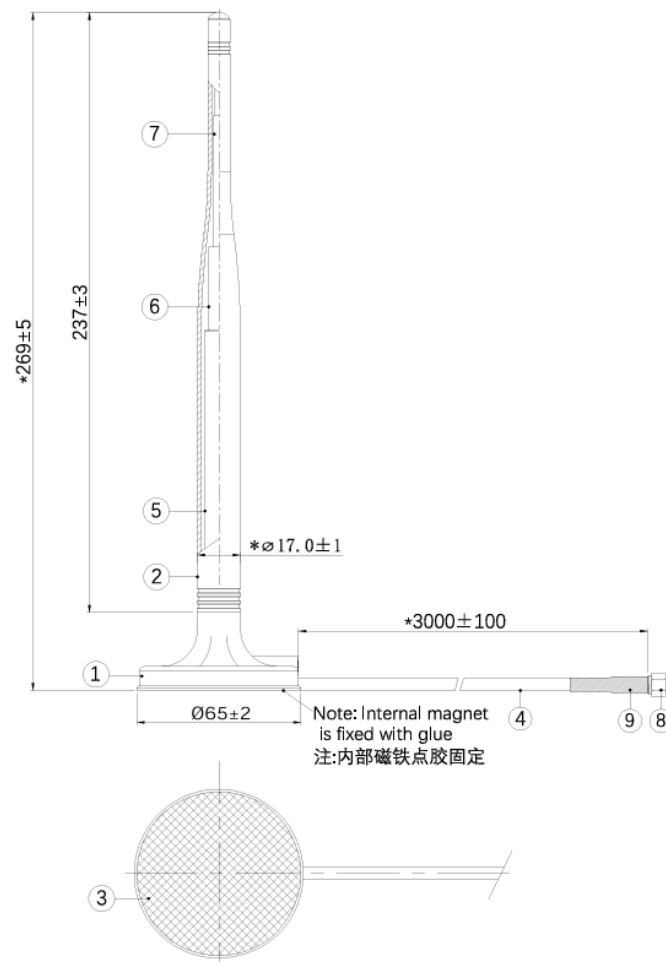


10 Radiation Patterns at 2600 MHz



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Mechanical Drawing



All dimensions in mm

12 Materials

No.	Part	Description	Qty
1	Base	ABS, Color: Black	1
2	Top	TPEE, Color: Black	1
3	Adhesive	Foam double-sided adhesive	1
4	Cable	RG58 cable, Black	1
5	Copper tube 1	Brass	1
6	Copper tube 2	Brass	1
7	Copper tube 3	Brass	1
8	Connector	SMA male	1
9	Heat Shrink Tube	Heat shrink tube	1

13 Construction Notes

- ◆ Specification: frequency range 700 to 960 MHz / 1710 to 2700 MHz, impedance 50 Ω , VSWR ≤ 3.0
- ◆ The connector must pass a 48 hour salt spray test
- ◆ These products are in conformity with RoHS 2.0
- ◆ The key dimension is marked with "*"

14 Product View



15 Packaging

- ◆ Antennas packed in PE bag (1 per bag)
- ◆ Small bag dimensions: 28.5 × 9.5 cm

16 Compliance

ROHS

Compliant

Conforms to EU RoHS Directive 2011/65/EU as amended by Delegated Directive (EU) 2015/863.

REACH

Compliant

Conforms to EU REACH Regulation (EC) No 1907/2006.

CERTIFICATE

On request

A certificate of conformance is available upon request from sales@synzen.com.tw.

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