

# 5G Sub-6GHz External Whip Antenna



**AEBC1101X**

Request Samples



Check Inventory



115 x Ø19 mm

RoHS/RoHS II Compliant

MSL = 3

## Features

- 600 MHz ~ 6GHz
- Supports 5G NR, CBRS, Private LTE Bands
- Peak Gain of 3 dBi
- Optimal Efficiency
- Easy installation with built-in connector
- Customizable connector options

## Applications

- IoT
- M2M
- Smart Grid
- Vending Machines
- Gateways & Routers
- Security / Remote Monitoring

## Product Image



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## Part Number Builder

AEBC1101X□ - □

Color / IP Rating / UV Coating			
Code	Color	IP Rating (excluding cable outlet)	UV Protective Coating
S (Standard)	Black	No	No

Connector Type	
Code	Connector Type
S (Standard)	SMA (M)
A	RP-SMA

## Example Configurations:

Part Number	Color / IP Rating / UV Coating	Connector Type
AEBC1101XS-S	Black / No / No	SMA (M) (Standard)
AEBC1101XS-A	Black / No / No	RP-SMA

## Note:

- For the standard part number (AEBC1101XS-S), please refer to the packaging at the end of the document.
- For custom configurations (AEBC1101X□-□), MOQs, pricing and packaging changes may apply.

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## Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	600		6000	MHz
VSWR			3.0	
Peak gain			3.0	dBi
Efficiency	(600-960 MHz)	30	50	%
	(1400-6000 MHz)	45	60	
Impedance		50		Ω
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			

## Mechanical Specification

Parameter	Specification
Dimensions	115 x Ø19 mm
Material	PC+PT / ABS
Color	Black
Antenna Type	Whip
RF Connector	SMA(M)
Connector Pull Force	>3.0 Kg

## Environmental Specification

Parameter	Specification
Operating Temperature	-30°C to +65°C
Storage Temperature	-30°C to +85°C
ROHS Complaint	Yes RoHS 2011/65/EU with IEC 62321:2008 Method
MSL Level	3

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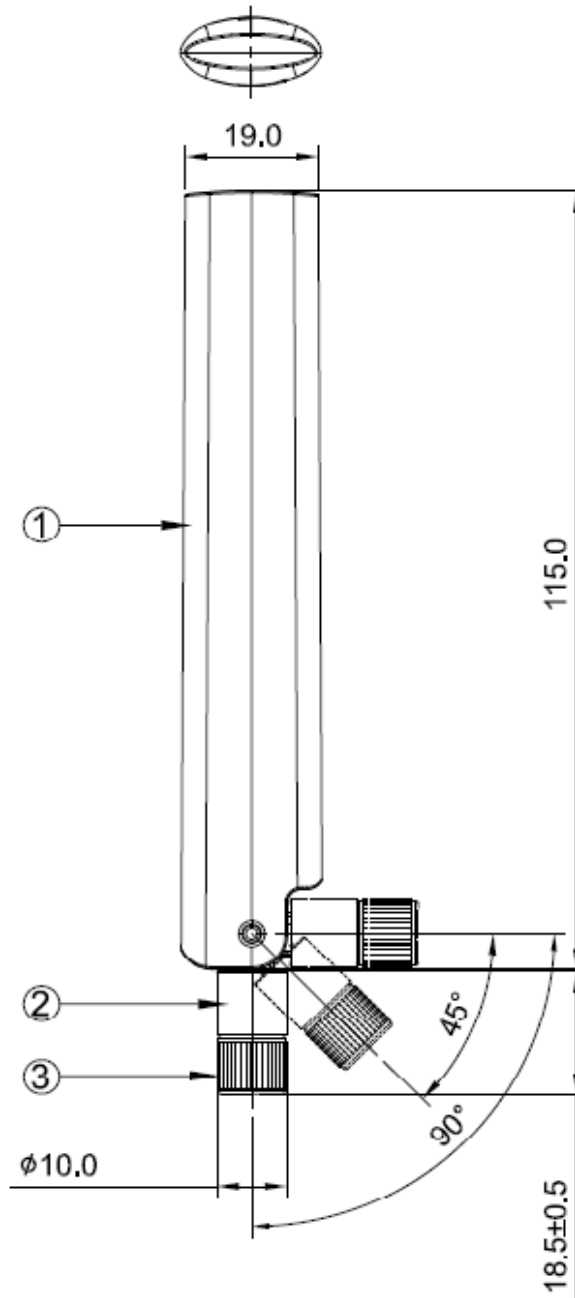


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## Product Dimension



Unit : mm

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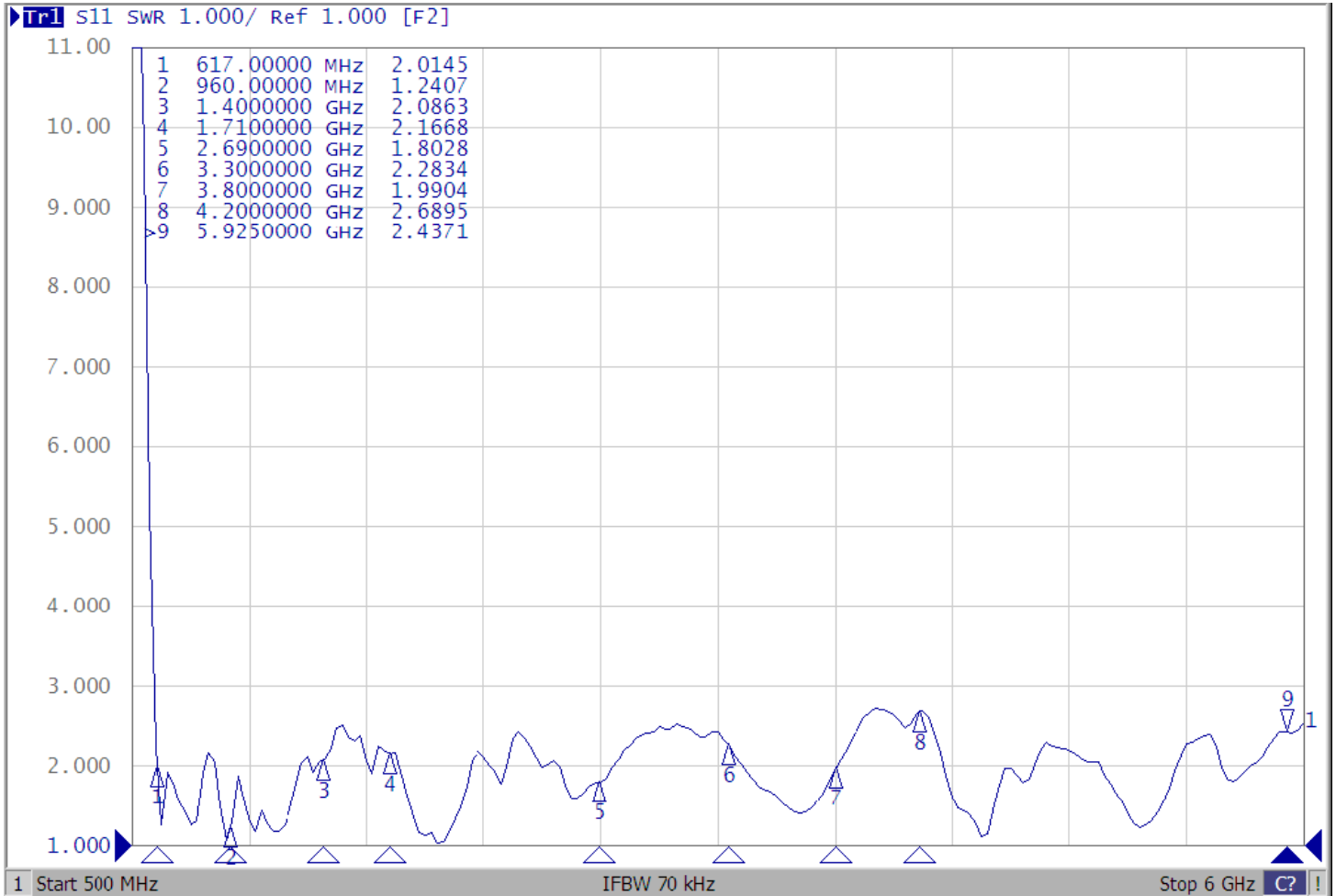


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## VSWR Measurement



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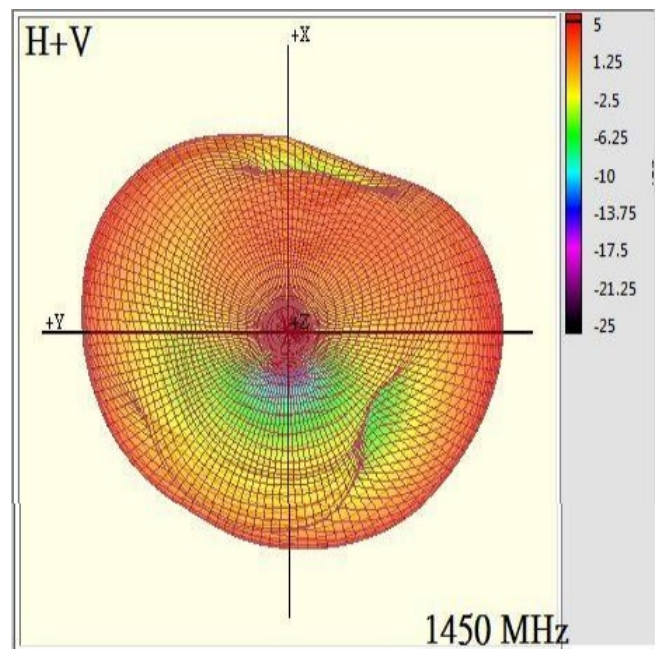
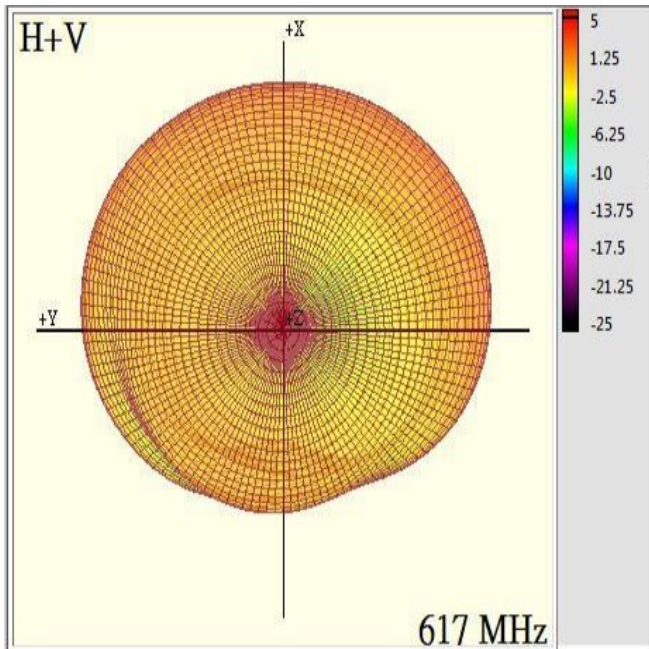
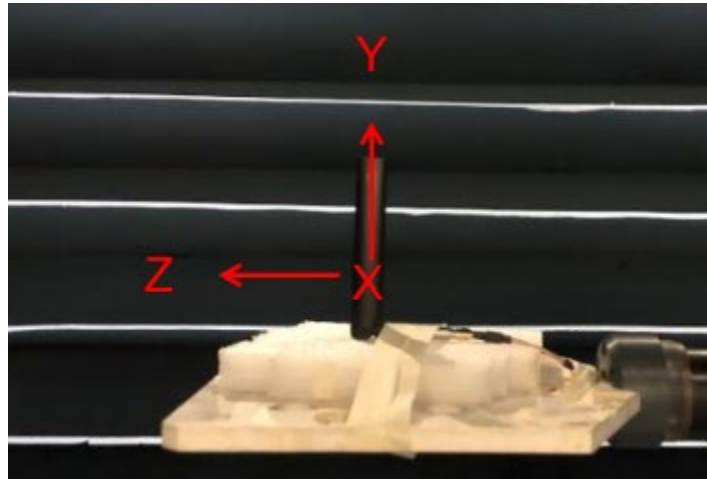


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## 3D Radiation Pattern



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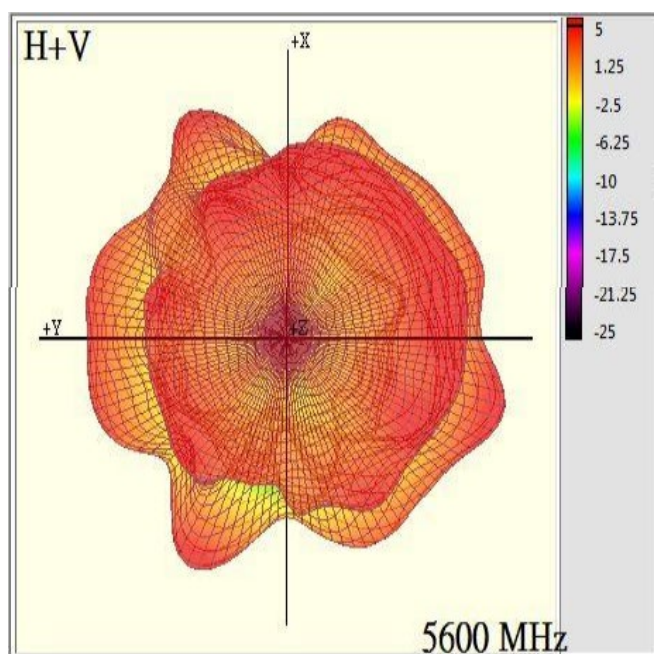
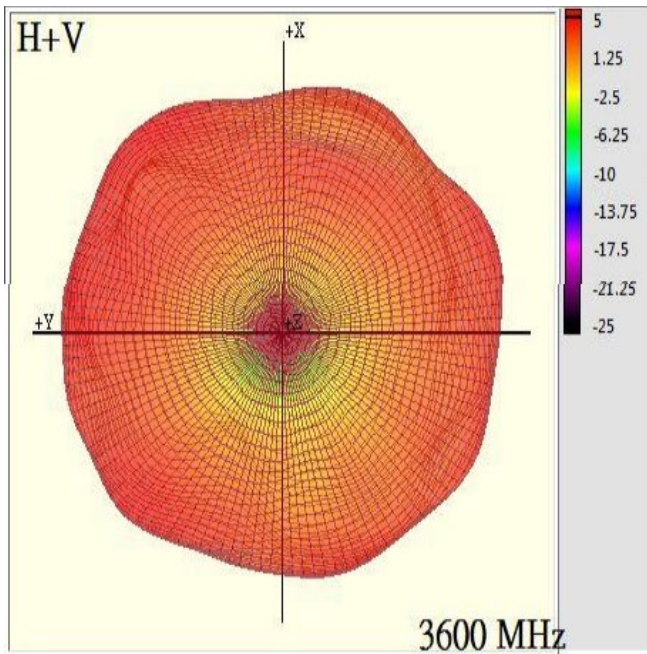
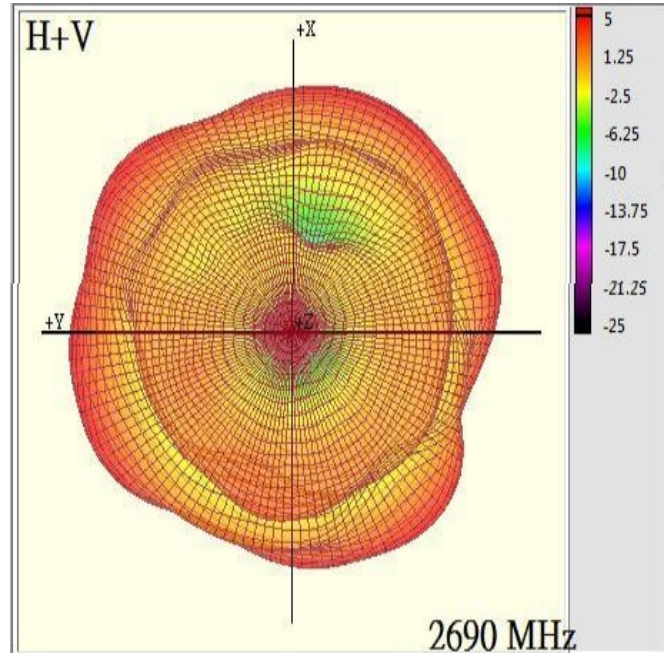
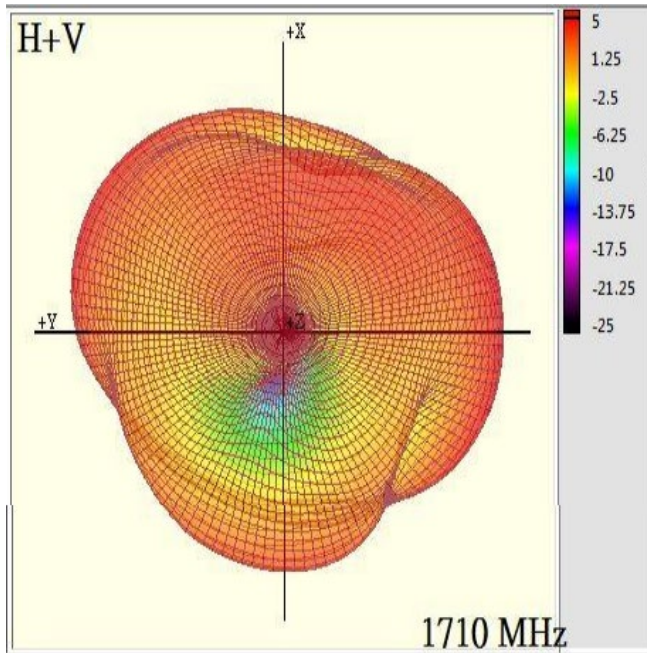
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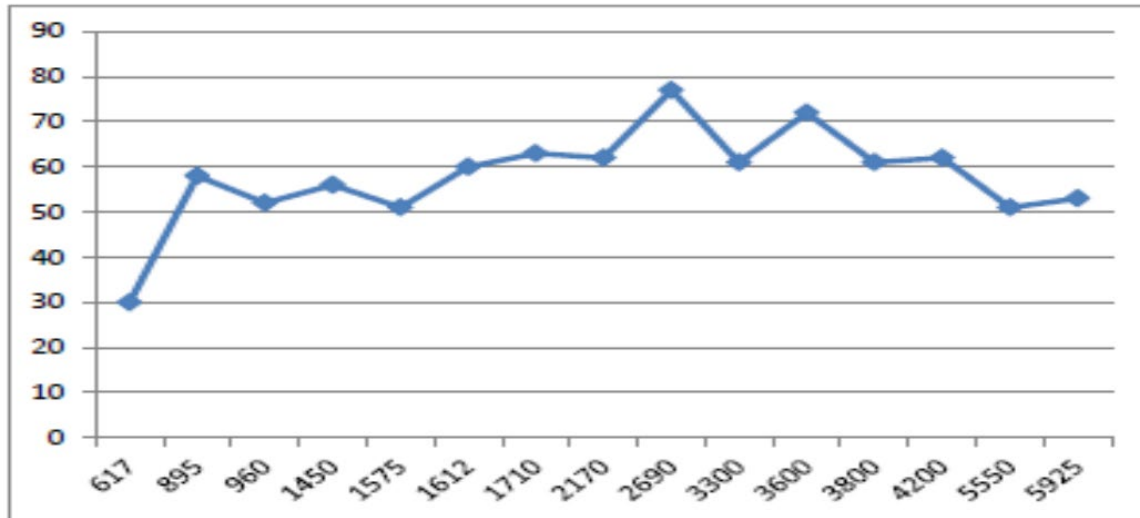
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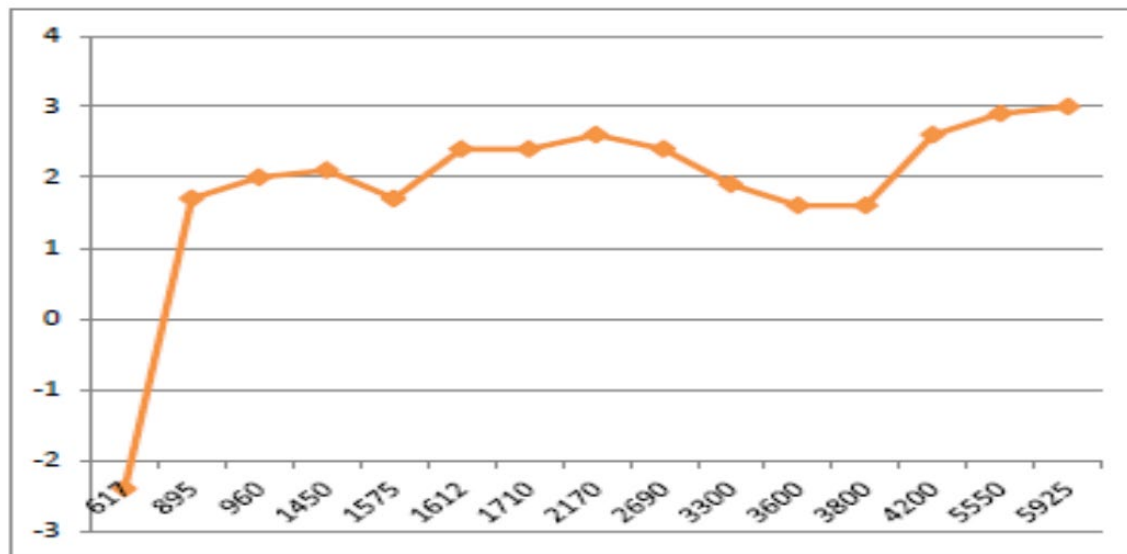
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## Gain and Efficiency

### Efficiency



### Gain



Frequency (MHz)	617	895	960	1450	1575	1612	1710	2170	2690	3300	3600	3800	4200	5550	5925
Efficiency (%)	30	58	52	56	51	60	63	62	77	61	72	61	62	51	53
Peak Gain (dBi)	-2.4	1.7	2	2.1	1.7	2.4	2.4	2.6	2.4	1.9	1.6	1.6	2.6	2.9	3



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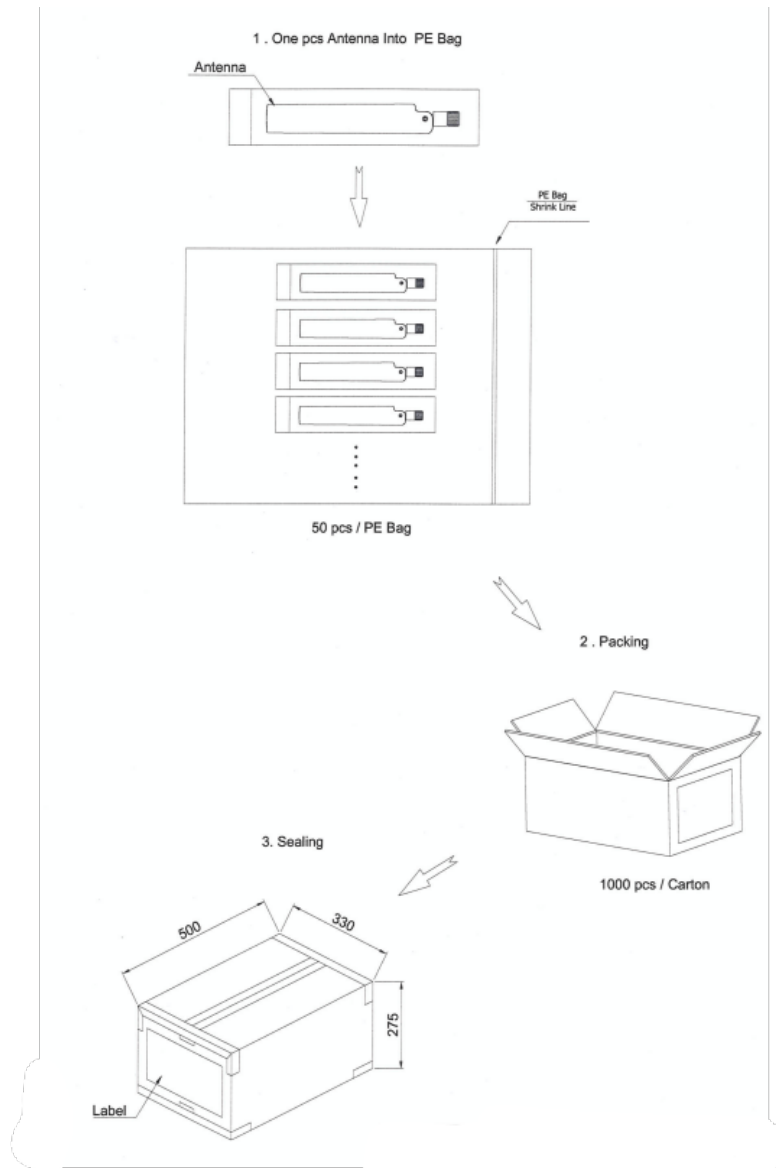
## Packaging Information

Dimension of the Carton : 500 x 330 x 275 mm

No. of pieces/bag: 50 pcs

No. of bags/carton: 20

Total no. of pieces/carton: 1000 pcs



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