

# Wi-Fi 6e External Dome Antenna

**AEMF3108A-F**

## Features

- Miniaturized in size 80 x Ø 52.7 mm
- High efficiency up to 68%
- High peak gain up to 6 dBi
- Rugged design for industrial applications
- Customizable connector

## Applications

- Wi-Fi/WLAN coverage
  - Wi-Fi 7 (802.11be)
  - Wi-Fi 6/6E (802.11ax)
  - Wi-Fi 4/5 (802.11b/g/n/ac)
- Bluetooth®/ ZigBee® / Thread/ Matter
- Router and Networking
- Home Automation and Remote Sensing

## Product Image



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## Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400-2500	5150-5850	5925-7125	MHz
VSWR (Typ.)	< 2.0			
Gain	3	6	5	dBi
Efficiency (Maximum)	68	59	49	%
Impedance	50			$\Omega$
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			

## Mechanical Specification

Parameter	Specification
Dimensions	80 x $\varnothing$ 52.7 mm
Material	ABS <sup>(1)</sup>
Color	Black
Antenna Type	Dome
RF Connector	NF(BH)

(1): UV Resistant optional

## Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes

## Ordering Information

Part Number	Description	Connector Option
AEMF3108A-F	Wi-Fi 6e External Dome Antenna with NF(BH) connector with 200mm cable length	NF(BH)



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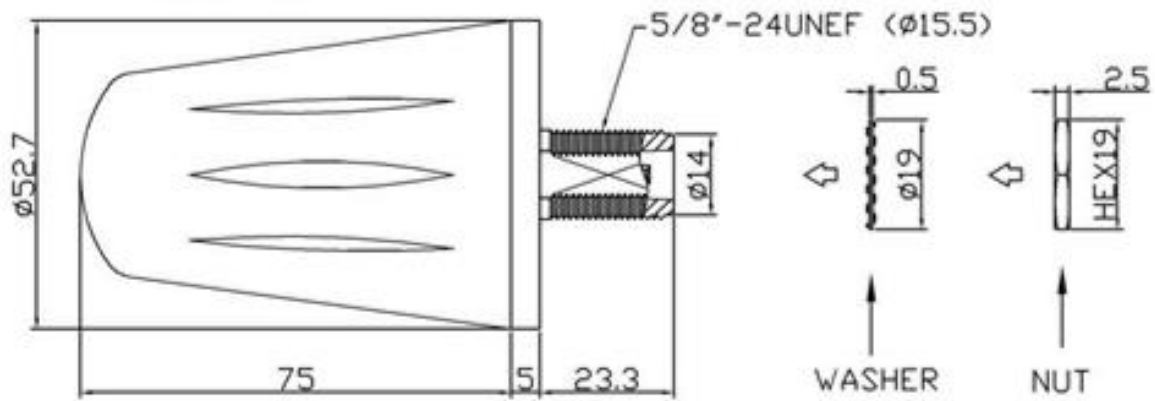
REVISED: 05-11-23

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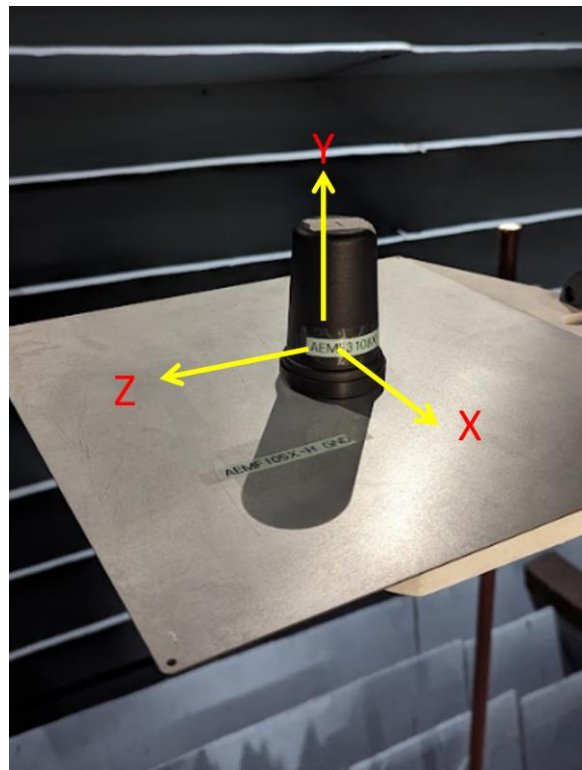
## Product Dimensions



Unit : mm

## Measurement Setup

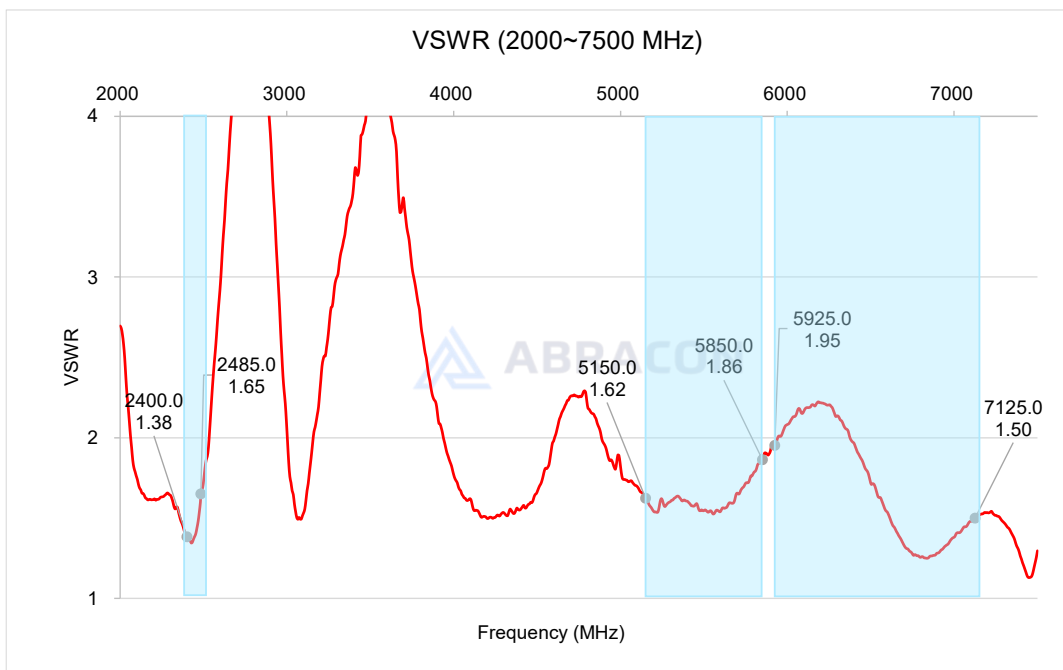
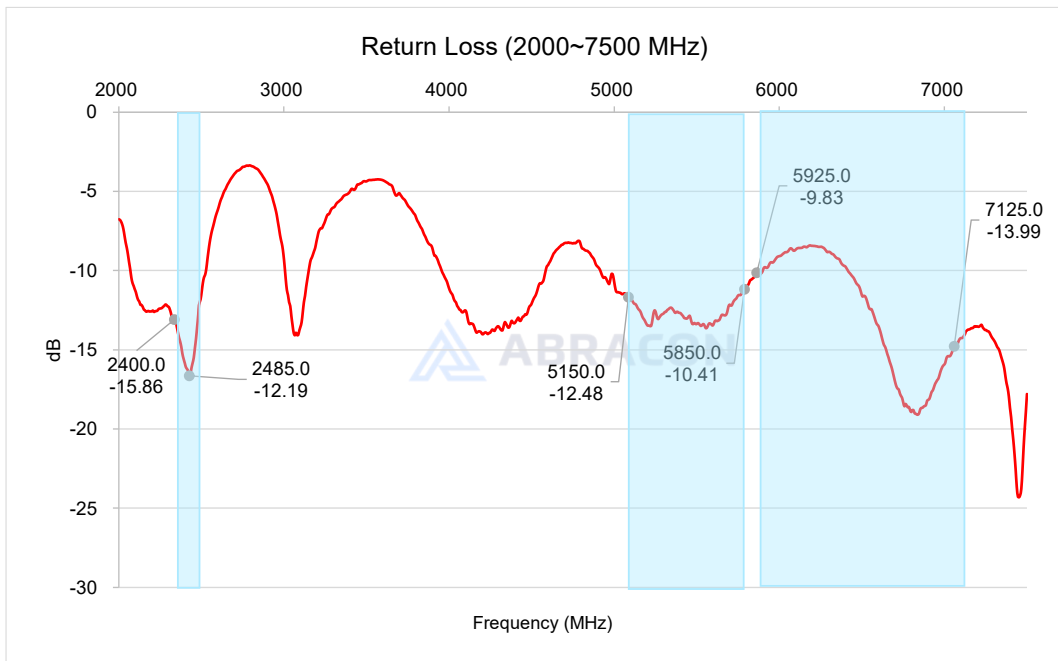
With Metal Plate



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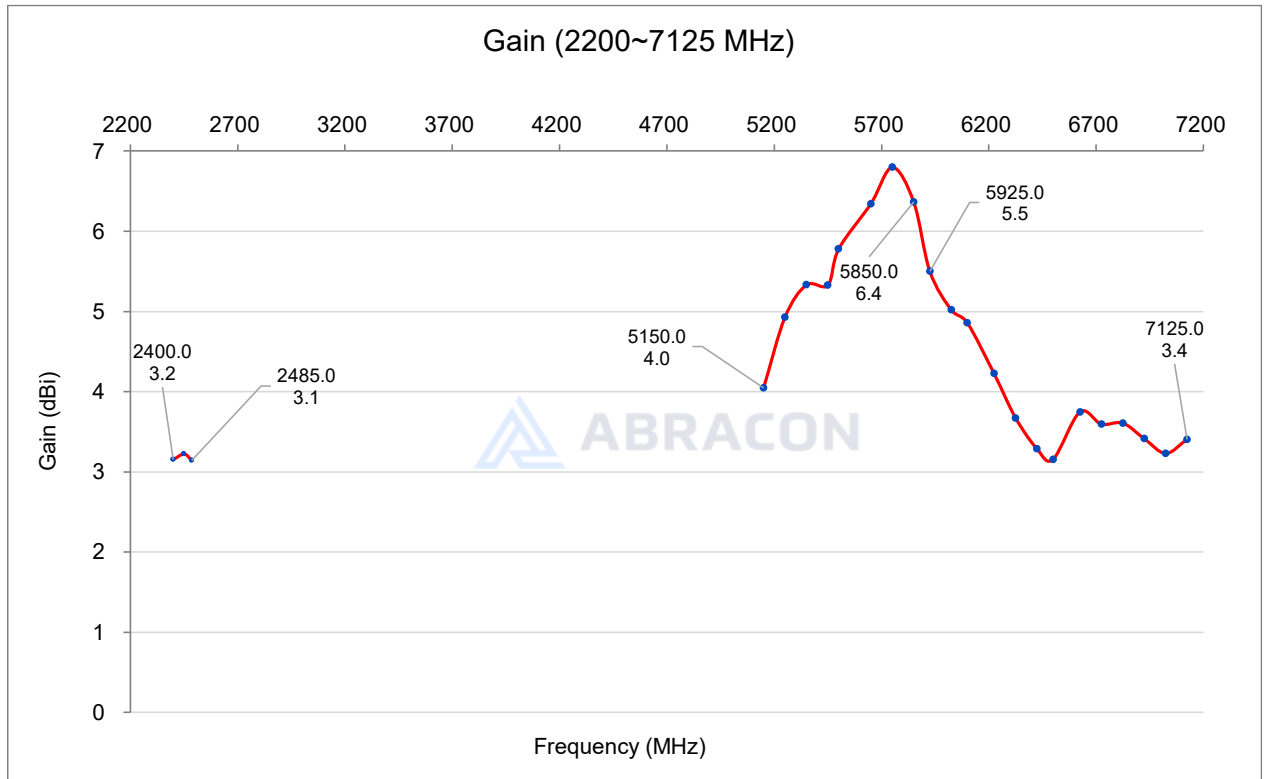
## Reflection Characteristics – Return Loss & VSWR



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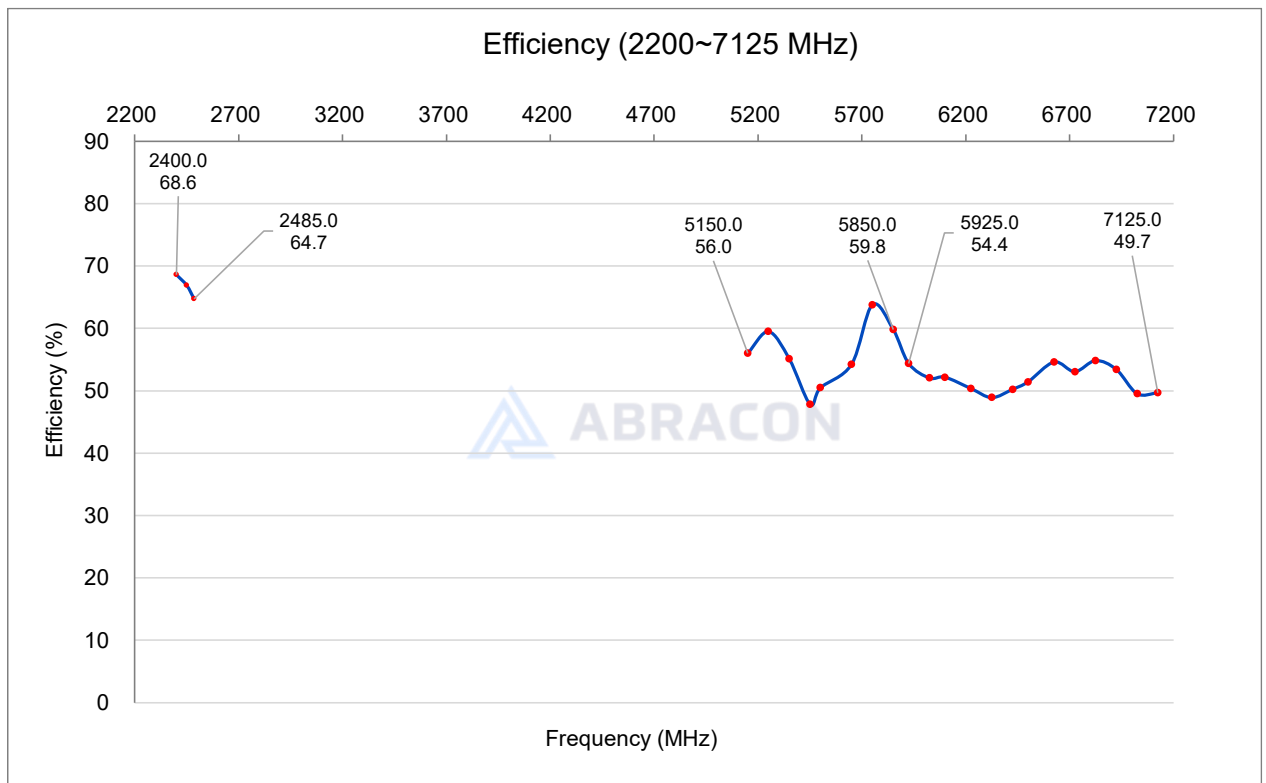
## Radiation Characteristics – Peak Gain



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## Radiation Characteristics – Total Efficiency (%)

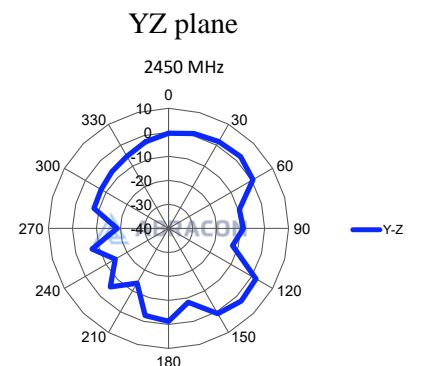
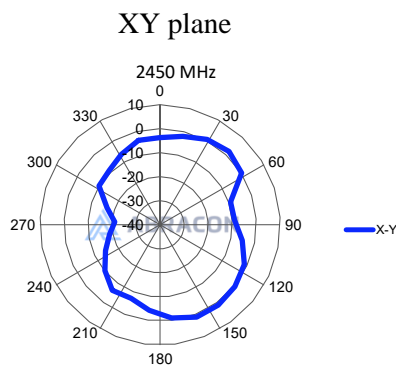
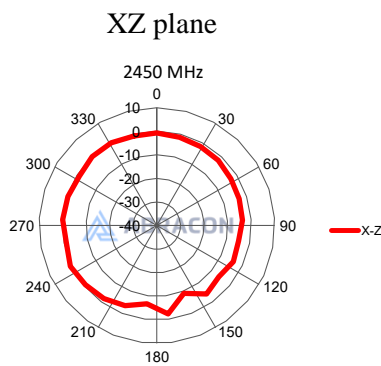
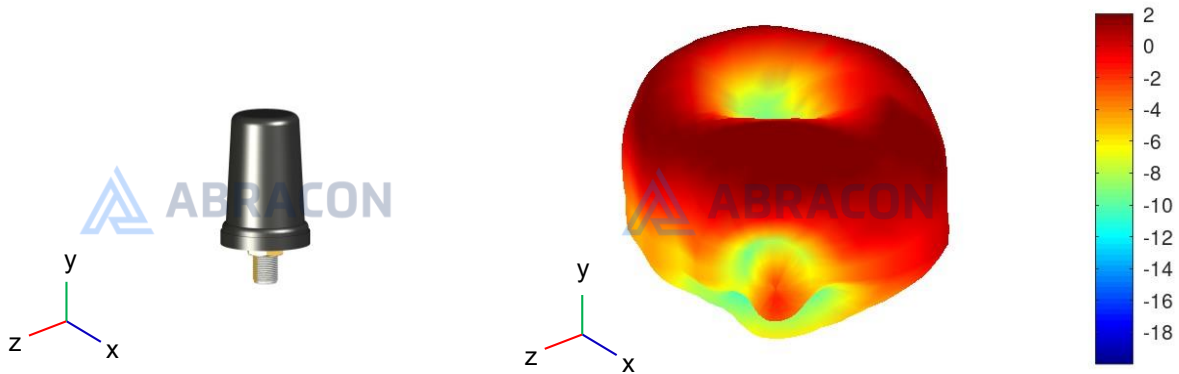


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## Radiation Characteristics – 3D & 2D Pattern

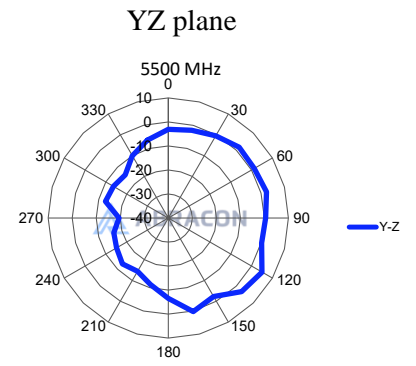
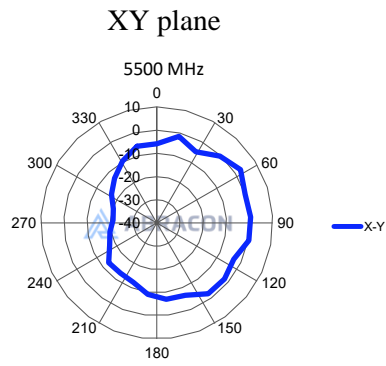
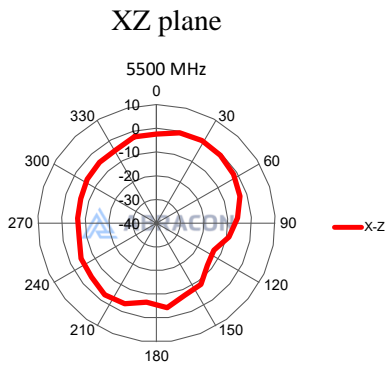
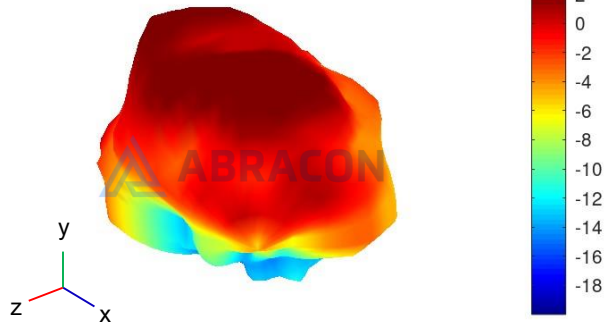
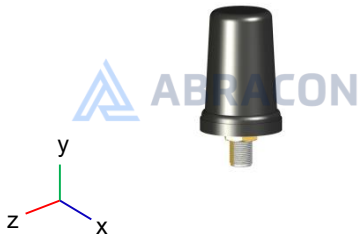
2450MHz



# Wi-Fi 6e External Dome Antenna

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5500MHz

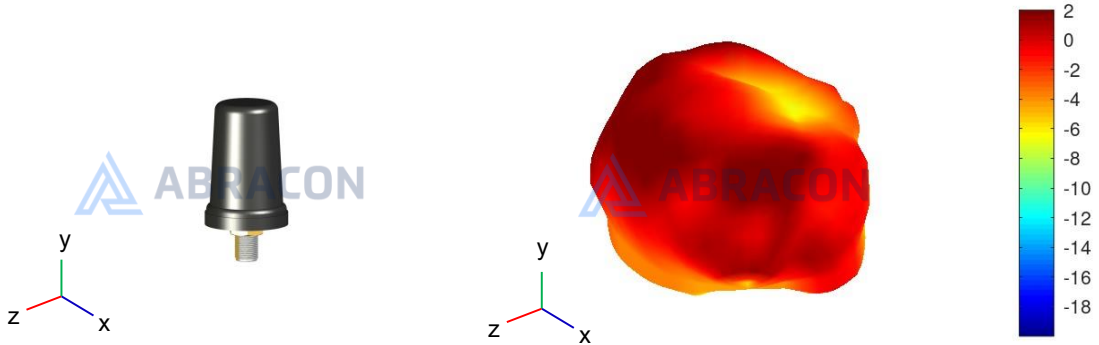




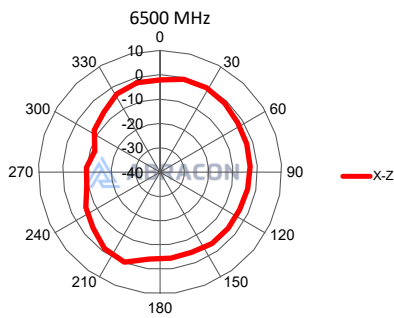
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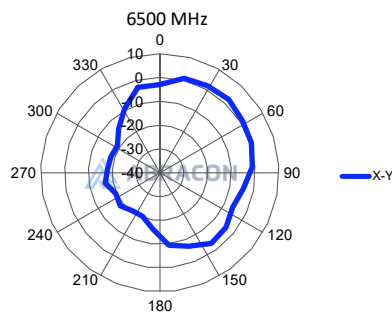
6500MHz



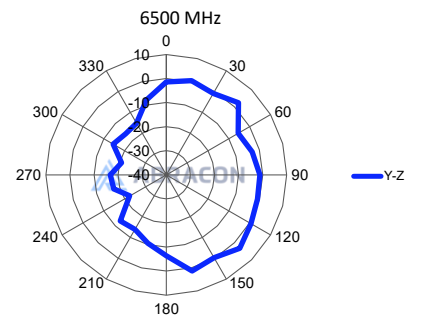
XZ plane



XY plane



YZ plane



# Wi-Fi 6e External Dome Antenna

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## **Packaging**

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Number of antennas / PE bag: 10pcs

Number of PE bags / carton: 15

Total antennas / carton: 150 pcs

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