

**AECP0401G4Z**[Request Samples](#)[Check Inventory](#)

45.2 x 35.8 x 15.2 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Automotive Grade Antenna
- Manufactured in Automotive Certified lines
  - IATF 16949 certified
- PPAP available upon request
- GNSS/GPS/GLONASS/BeiDou/QZSS
- High Gain of 5 dBi
- High LNA gain of 28±2dB
- RHCP
- IP67 rated
- Easy installation using built-in magnet
- Fully customizable cable and connector options for RF connection

## Applications

- IoT
- M2M
- Automotive Applications
- Geolocation Tracking
- Vehicle Tracking
- Fleet Management
- Smart City
- Transportation
- Smart Agriculture

## Product Image



# GNSS - Automotive Grade Active External Puck Antenna



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## Part Number Builder

AECP0401G4Z  -

Color / UV Coating	
Code	Description
S (Standard)	Black without UV coating
A	Black with UV Coating
B	White without UV Coating
C	White with UV Coating

Cable length in 'mm'	
Code	Description
3000 (Standard)	3000 mm
0200	200 mm
2000	2000 mm

Other Examples :

Cable Type & Connector Type		
Code	Cable Type	Connector Type
S (Standard)	RG-174	SMA (M)
A		FAKRA C (F)
B		RP-SMA (M)
C		SMB (M)
D		N-Type (M)
E		TNC (M)
F		BNC (M)
G		MCX (M)
H		MMCX (M)
I		FME (M)
J		FME (F)
K		SMA (M)
L		FAKRA C (F)
M		RP-SMA (M)
N	LMR-100	SMB (M)
O		N-Type (M)
P		TNC (M)
Q		BNC (M)
R		MCX (M)
T		MMCX (M)
U		FME (M)
V		FME (F)

### Example Configurations :

Part Number	UV Protection Coating / Color	Cable length	Cable Type / Connector Type
AECP0401G4Z <u>S</u> - <u>3000</u> <u>S</u>	No / Black	3000 mm	RG-174 with SMA (M) (Standard)
AECP0401G4Z <u>A</u> - <u>1000</u> <u>A</u>	Yes / Black	1000 mm	RG-174 with FAKRA C (M)
AECP0401G4Z <u>B</u> - <u>5000</u> <u>O</u>	No / White	5000 mm	LMR-100 with N-Type (M)

### Note :

- For the standard part number (AECP0401G4ZS-3000S), please refer to the packaging at the end of the document.
- For custom configurations (AECP0401G4Z  -          ), MOQs, pricing and packaging changes may be applicable.



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## Electrical Specification

Parameter	Min	Typ	Max	Unit
Center Frequency	1561		1602	MHz
VSWR			1.5	
Gain (Zenith)			5	dBic
Polarization		RHCP		
Impedance		50		Ω
Axial Ratio			3	dB
<b>LNA</b>				
Noise Figure			1.5	dB
Gain	26	28	30	dB
VSWR			2.0	
Ex-band Attenuation	CF + 50 MHz	12		dB
	CF - 50 MHz	16		
DC Supply Voltage	2.2		5.0	V
Current Consumption	5		15	mA
<b>FILTER</b>				
Insertion Loss			3.0	dB

## Mechanical Specification

Parameter	Specification
Antenna Dimension	45.2 x 35.8 x 15.2 mm
Radome Material	ABS
Mounting Type	Magnet
RF Connector	SMA (M)
RF Cable	RG-174
Cable Length	3 m

## Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Compliance	Yes
PB Free	Yes
MSL	1
ESD Sensitive	Yes
Vibration	10 ~ 55 Hz with 1.5 mm amplitude 2 hrs
UL Rating	UL-94 HB
Ingress Protection	IP67 (excluding cable outlet)



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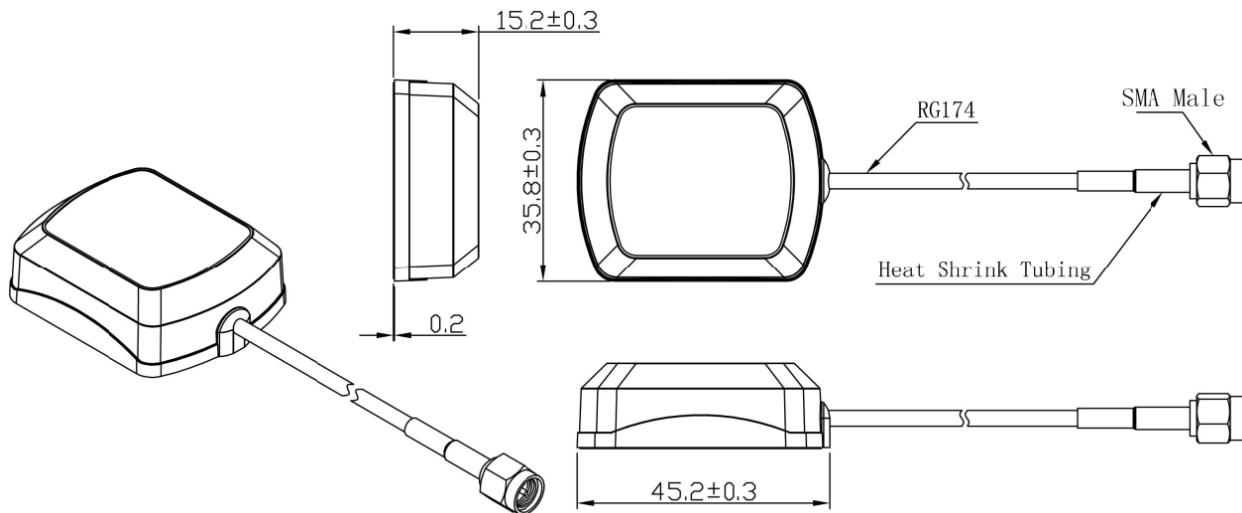
**AECP0401G4Z**

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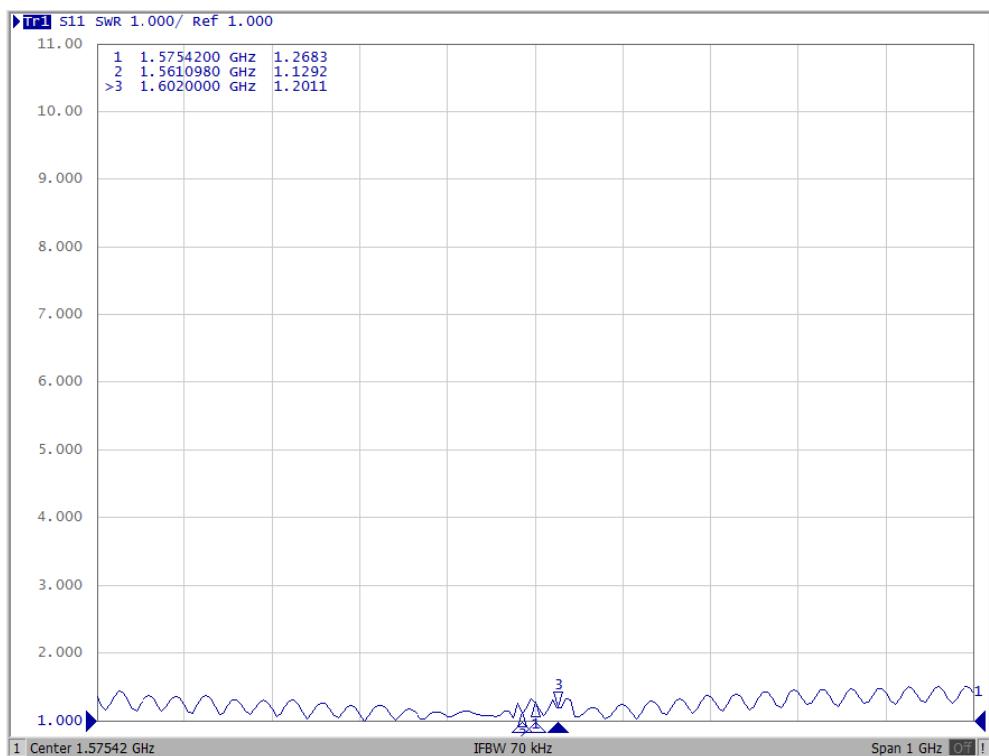
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## Product Dimension



Unit : mm

## Test Measurement - VSWR



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**AECP0401G4Z**

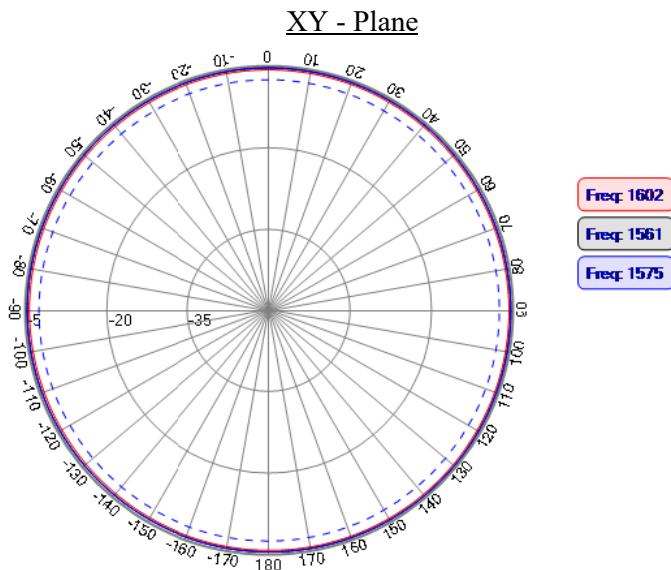
Request Samples [\(>\)](#)

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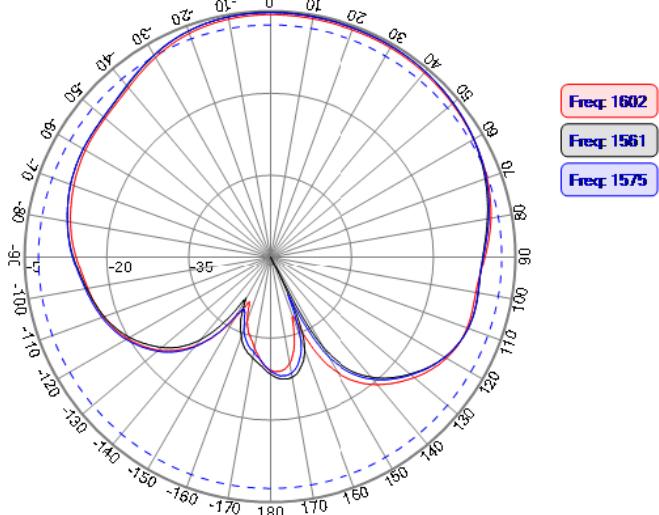
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## Radiation Characteristics

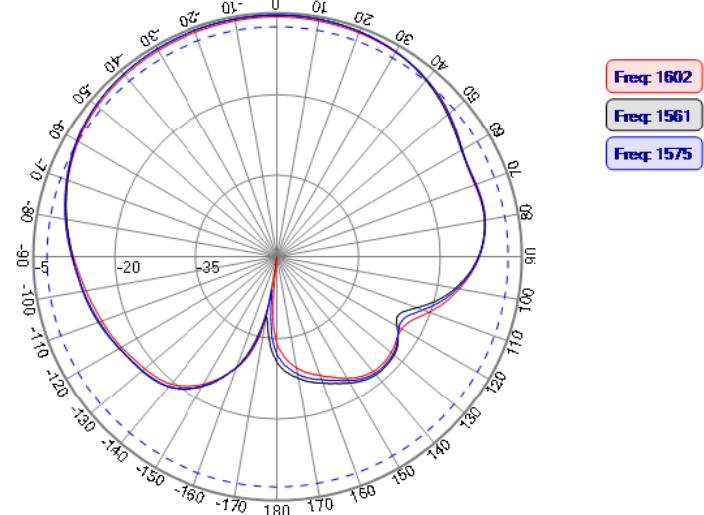
### 2D Pattern



XZ - Plane



YZ - Plane



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## Packaging Information

Number of Antenna/ Carton : 200 pcs

Weight of 1 pc of the antenna : 65 g

Dimension of the Carton : 490 x 230 x 270 mm

Weight of the Carton : 14 kg

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