

### AECA0401G4Z

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 line

   IATF 16949 certified
  - PPAP available upon request
- GNSS/GPS/GLONASS/BeiDou/QZSS
- High Gain of 5 dBi
- High LNA gain of 28±2 dB
- RHCP

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- IP67
- Easy installation using built-in adhesive tape
- Fully customizable cable and connector options for RF connection

#### **Product Image**

### Applications

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





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**REVISED: 05-12-20** 



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> SMA (M) FAKRA C (F)

RP-SMA (M) SMB (M)

N-Type (M)

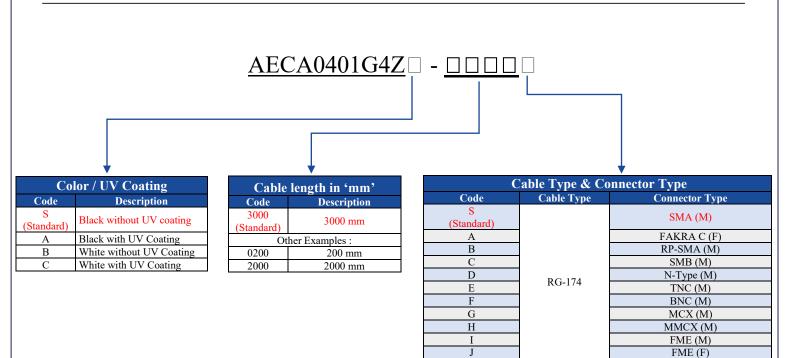
TNC (M) BNC (M)

MCX (M)

MMCX (M) FME (M)

FME (F)

#### Part Number Builder



#### **Example Configurations :**

Part Number	UV Protection Coating / Color	Cable length	Cable Type / Connector Type
AECA0401G4Z <mark>S-<u>3000</u>S</mark>	No / Black	3000 mm	RG-174 with SMA (M) (Standard)
AECA0401G4ZA- <u>1000</u> A	Yes / Black	1000 mm	RG-174 with FAKRA C (M)
AECA0401G4ZB- <u>5000</u> O	No / White	5000 mm	LMR-100 with N-Type (M)

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U V LMR-100

#### Note :

- For the standard part number (AECA0401G4Z<mark>S-3000S)</mark>, please refer to the packaging at the end of the document.
- For custom configurations (AECA0401G4Z $\square$ - $\square\square\square\square$ ), MOQs, pricing and packaging changes may be applicable.



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#### **Electrical Specification**

Pa	rameter	Min	Тур	Max	Unit
Center	r Frequency	1561		1602	MHz
V	/SWR			1.5	
Gair	n (Zenith)			5	dBiC
Pol	arization		RHCP		
Im	pedance		50		Ω
Axial Ratio				3	dB
			LNA		
Noi	se Figure			1.5	dB
	Gain	26	28	30	dB
V	/SWR			2.0	
Ex-band	CF + 50 MHz		12		1D
Attenuation	$CF - 50 \ MHz$		16		dB
DC Su	pply Voltage	2.2		5.0	V
Current Consumption		5		15	mA
	·	·	FILTER	· ·	
Inse	rtion Loss			3.0	dB

#### **Mechanical Specification**

Parameter	Specification		
Antenna Dimension	45.2 x 35.8 x 15.2 mm		
Radome Material	ABS		
Mounting Type	Adhesive		
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	$10 \sim 55$ Hz with 1.5 mm amplitude 2 hrs		
UL Rating	UL-94 HB		
Ingress Protection	IP67 (excluding cable outlet)		



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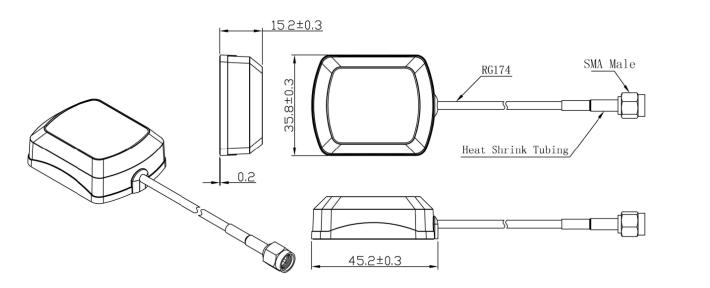
### AECA0401G4Z Req

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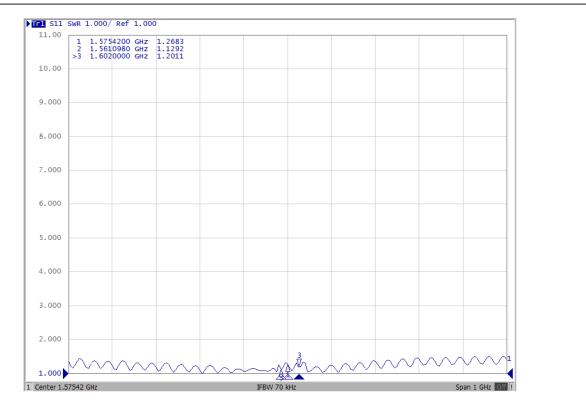
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#### **Product Dimension**



Unit : mm

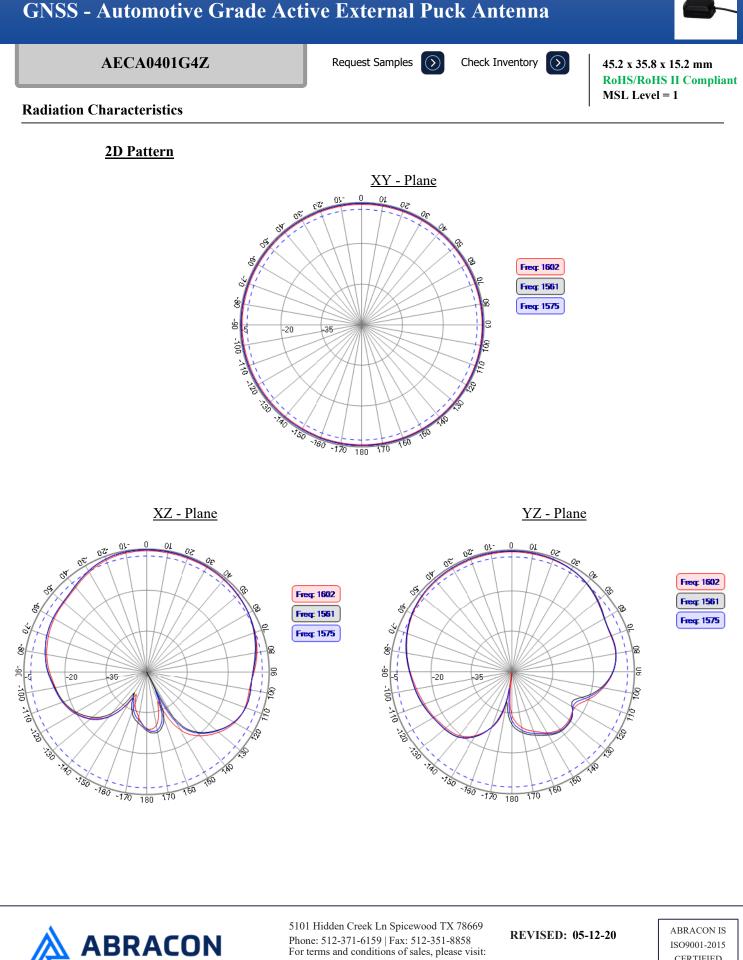
#### Test Measurement - VSWR





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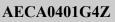
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ISO9001-2015 CERTIFIED



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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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