

### AECW0401G4Z

Request Samples



Check Inventory (>)



Ø46.6 x 16.3 mm **RoHS/RoHS II Compliant** MSL Level = 1

### **Features**

- Automotive Grade Antenna
- Manufactured in Automotive Certified lines
  - o IATF 16949 certified
  - o ISO 9001 certified
- Level-3 PPAP available upon request
- GNSS/GPS/GLONASS/BeiDou/QZSS
- IP67 rated
- **RHCP**
- High LNA gain of 28 dB
- Easy installation using screw

## **Applications**

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

### **Product Image**







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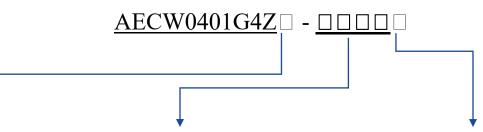


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#### Part Number Builder



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

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

Cable Type & Connector Type			
Code	Cable Type	Connector Type	
S (Standard)		SMA (M)	
A		FAKRA C (F)	
В		RP-SMA (M)	
C		SMB (M)	
D	RG-174	N-Type (M)	
Е		TNC (M)	
F		BNC (M)	
G		MCX (M)	
Н		MMCX (M)	
I		FME (M)	
J		FME (F)	
K		SMA (M)	
L	LMR-100	FAKRA C (F)	
M		RP-SMA (M)	
N		SMB (M)	
О		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
AECW0401G4ZS-3000S	No / Black	3000 mm	RG-174 with SMA (M) (Standard)
AECW0401G4Z <mark>A</mark> - <u>1000</u> A	Yes / Black	1000 mm	RG-174 with FAKRA C (M)
AECW0401G4ZB- <u>5000</u> O	No / White	5000 mm	LMR-100 with N-Type (M)

### Note:

- For the standard part number (AECW0401G4Z), please refer to the packaging at the end of the document.
- For custom configurations (AECW0401G4Z $\square$ - $\square\square\square\square\square$ ), MOQs, pricing and packaging changes may be applicable.



ABRACON IS **REVISED: 05-12-20** ISO9001-2015 CERTIFIED



### AECW0401G4Z

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## **Electrical Specification**

Parameter		Specification			Unit
1 al a	illietei	Min	Тур	Max	Omt
Center I	Frequency	1561		1602	MHz
VS	SWR			1.5	
Gain (	(Zenith)			2.0	dBic
Axia	1 Ratio			3.0	dB
Impe	edance		50		Ω
Polar	rization		RHCP		
			LNA		
G	ain	26	28	30	dB
Noise	Figure			1.5	dB
VS	SWR			2.0	
Ex-band	@CF + 50 MHz		12		dB
Attenuation	@CF – 50 MHz		16		dB
Supply V	oltage (DC)	2.2		5	V
Current C	onsumption	5		15	mA
FILTER					
Inserti	ion Loss			3.0	dB

## **Mechanical Specification**

Parameter	Specification
Antenna Dimension	Ø46.6 x 16.3 mm
Radome Material	ABS
Mounting Type	Screw
RF Connector	SMA (M)
RF Cable	RG-174
Cable Length	3 m





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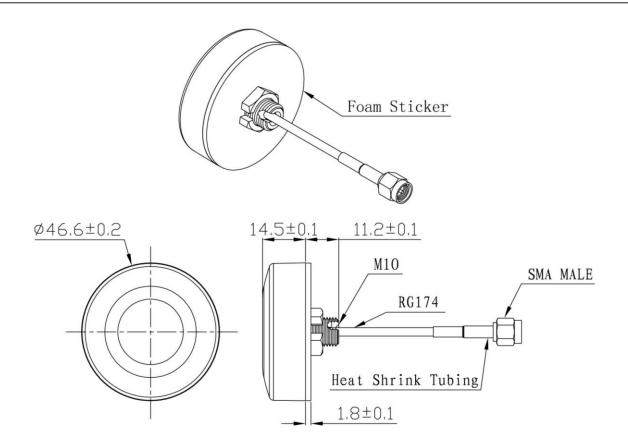


Ø46.6 x 16.3 mm **RoHS/RoHS II Compliant** MSL Level = 1

### **Environmental Specification**

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	Up to 95%
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-HB
Ingress Protection	IP67 (excluding cable outlet)

### **Product Dimension**



Unit: mm





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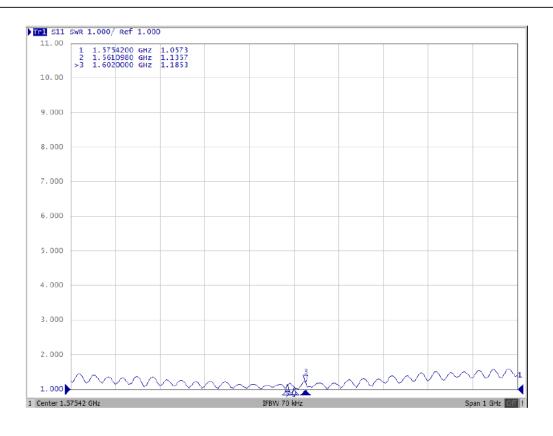


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### **Test Measurement - VSWR**







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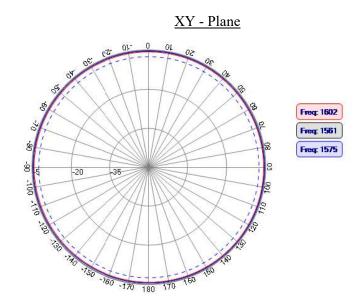
Check Inventory (>)

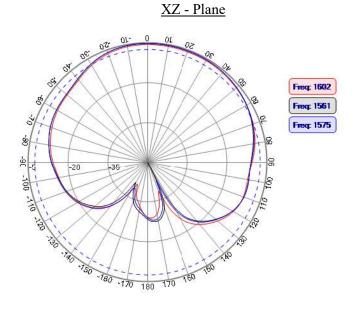


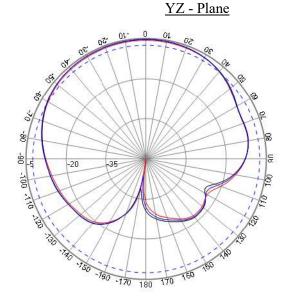
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### **Radiation Characteristics**

### 2D Pattern













#### AECW0401G4Z

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Ø46.6 x 16.3 mm RoHS/RoHS II Compliant MSL Level = 1

### **Packaging Information**

Number of Antenna/ Carton: 100 pcs Weight of 1 pc of the antenna: 100 g

Dimension of the Carton: 490 x 230 x 270 mm

Weight of the Carton: 11 kg

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