

AECC0502GB

Request Samples



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55.6 x Ø27.5 mm **RoHS/RoHS II Compliant** MSL Level = 1

Features

Ultra- Low Profile

Active GNSS

GPS: L1/L2

GLONASS: G1/G2

BEIDOU/Compass: B1/B2/B3

GALIELO: E1/E5b

IP67 rated

Easy installation using Connector

Applications

- IoT
- M2M
- Surveillance
- **Autonomous Driving**
- Fleet Management & Asset Tracking
- **Telematics**
- Smart Agriculture / Precision Farming
- Instrumentation

Product Image







AECC0502GB

Request Samples ()

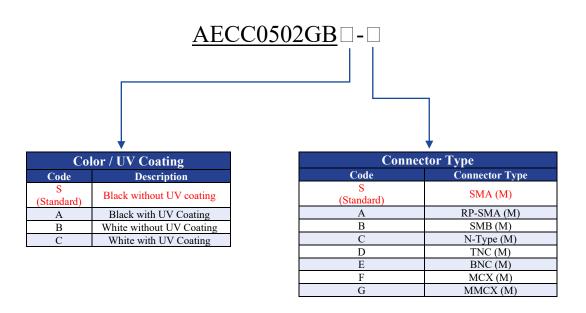


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Part Number Builder



Example Configurations:

Part Number	UV Coating / Color	Connector Type
AECC0502GBS-S	No / Black	SMA (M) (Standard)
AECC0502GBA-A	Yes / Black	RP-SMA (M)
AECC0502GBC-C	Yes / White	N-Type (M)

Note:

- For the standard part number (AECC0502GBS-S), please refer to the packaging at the end of the document.
- For custom configurations (AECC0502GB \square - \square), MOQs, pricing and packaging changes may be applicable.





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Electrical Specifications

Parameter	Specification			Unit
	Min	Тур	Max	UIII
	GPS	L1	1575.42	
		L2	1227.60	
	GLONASS	G1	1602.00	
	GLONASS	G2	1246.00	
Center Frequency		B1	1561.10	MHz
	BeiDou / Compass	B2	1207.14	
		В3	1268.52	
	Galileo	E1	1575.42	
	Garrico	E5b	1207.14	
VSWR			2.0	
Polarization	RHCP			
Peak Gain			2	dBi
Impedance		50		Ω
Axial Ratio			3	dB
Horizontal Coverage		360		degree
	·	LNA		
Gain	31	33	35	dBi
Passband Fluctuation		±2		dB
NF			1.5	dB
VSWR			2	
Supply Voltage (DC)	3		16	V
Current Consumption			35	mA

Mechanical Specifications

Parameter	Specification
Antenna Dimension	55.6 x Ø27.5 mm
Housing Material	PC + ABS
Mounting Type	Connector
RF Connector	SMA (M)





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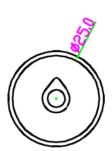


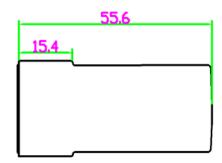
55.6 x Ø27.5 mm RoHS/RoHS II Compliant MSL Level = 1

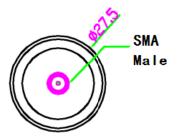
Environmental Specification

Parameter	Specification	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
IP Rating	IP67	
UL Rating	UL-94 V0	
RoHS Compliance	Yes	
PB Free	Yes	
MSL	1	
ESD Sensitive	Yes	
Relative Humidity	Up to 95%	
Vibration	$10 \sim 55$ Hz with 1.5 mm amplitude 2 hrs	

Product Dimension







Unit: mm





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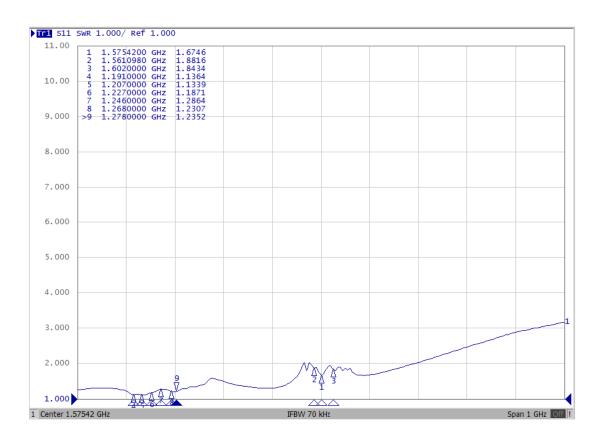


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Test Measurement - VSWR







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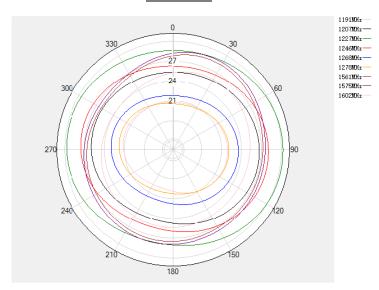


55.6 x Ø27.5 mm **RoHS/RoHS II Compliant** MSL Level = 1

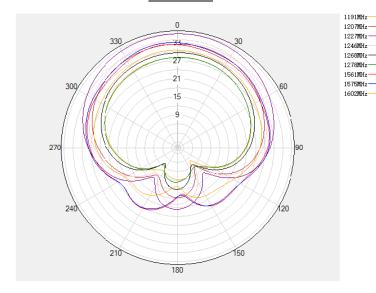
Radiation Characteristics

2D Pattern

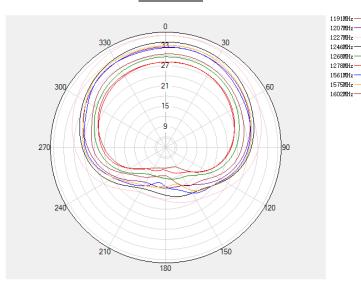
XY - Plane



XZ - Plane



YZ - Plane







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Packaging Information

Number of Antenna/ Carton: 72 pcs

Dimension of the Carton: 560 x 300 x 240 mm

Weight of 1 pc of Antenna: 35 g Weight of the Carton: 3 kg

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