

LTE 4G/5G & Wi-Fi 6e Whip Antenna



AETC2002X

Request Samples



Check Inventory



205 x 25 mm

RoHS Compliant

MSL = N/A

Features

- Low Profile
- Supports 617 MHz to 7150MHz
- VSWR: ≤ 1.67
- Peak Gain: 5 dBi
- Efficiency: up to 80%
- SMA or RP-SMA connector

Applications

- Internet of Things (IoT) devices
- Bluetooth® /ZigBee® / Single-band WiFi/WLAN
- 2.4GHz Audio Applications
- Bluetooth AoA/AoD applications
- Smart Home and Smart Building

Product Image



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Part Number Builder

AETC2002X□ - □□

Color / UV Coating		
Code	Color	UV Protective Coating
S (Standard)	Black	No

Cable length in 'mm'	
Code	Description
S (Standard)	Not Applicable

Connector Type	
Code	Connector Type
S (Standard)	SMA(M)
A	RP-SMA(M)

Example Configurations:

Part Number	Color / UV Protective Coating	Cable length	Connector Type
AETC2002XS-SS	Black / No	Not Applicable	SMA(M) (Standard)
AETC2002XS-SA	Black / No	Not Applicable	RP-SMA(M)

Note:

- For the standard part number (AETC2002XS-SS), please refer to the packaging at the end of the document.
- For custom configurations (AETC2002X□-□□), MOQs, pricing and packaging changes may apply.



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Electrical Specification

Parameter		Specification			Unit
		Min	Typ	Max	
Operating Frequency		617		960	MHz
		1710		2690	
		1452		1575.412	
		3300		4200	
		4400		5000	
		5150		7150	
VSWR			3.0		
Gain	(617-960 MHz)		1		dBi
	(1452-1575.412 MHz)		2.5		
	(1710-2690 MHz)		2.5		
	(3300-4200 MHz)		2.5		
	(4400-5000 MHz)		2.5		
	(5150-7150 MHz)		2.5		
Impedance			50		Ω
Polarization		Vertical			
Radiation Pattern (Azimuth)		Omni-directional			

Mechanical Specification

Parameter	Specification
Dimensions	205 x 25 mm
Material	ABS
Color	Black
Antenna Type	Whip
RF Connector	SMA
Weight	30 g

Environmental Specification

Parameter	Specification
Operating Temperature	-20°C to +65°C
Storage Temperature	-30°C to +70°C
ROHS Complaint	Yes
MSL	N/A

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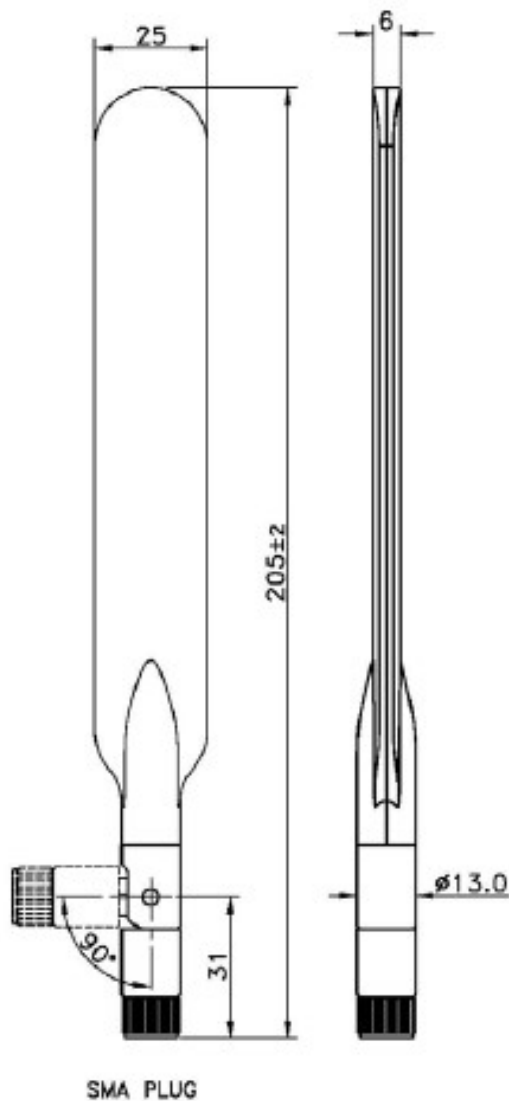


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Product Dimension



Unit : mm

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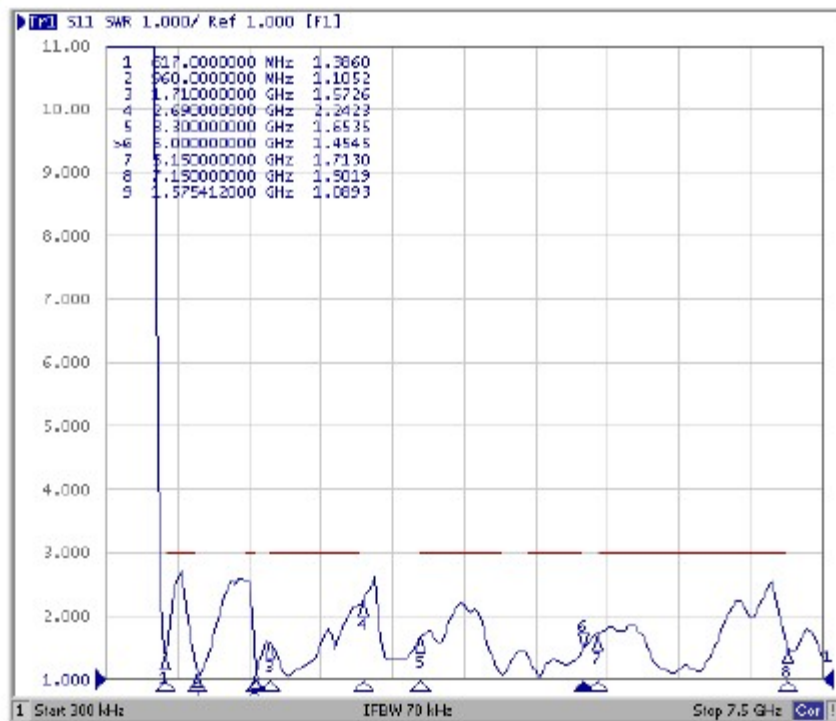
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VSWR Measurement

V.S.W.R.



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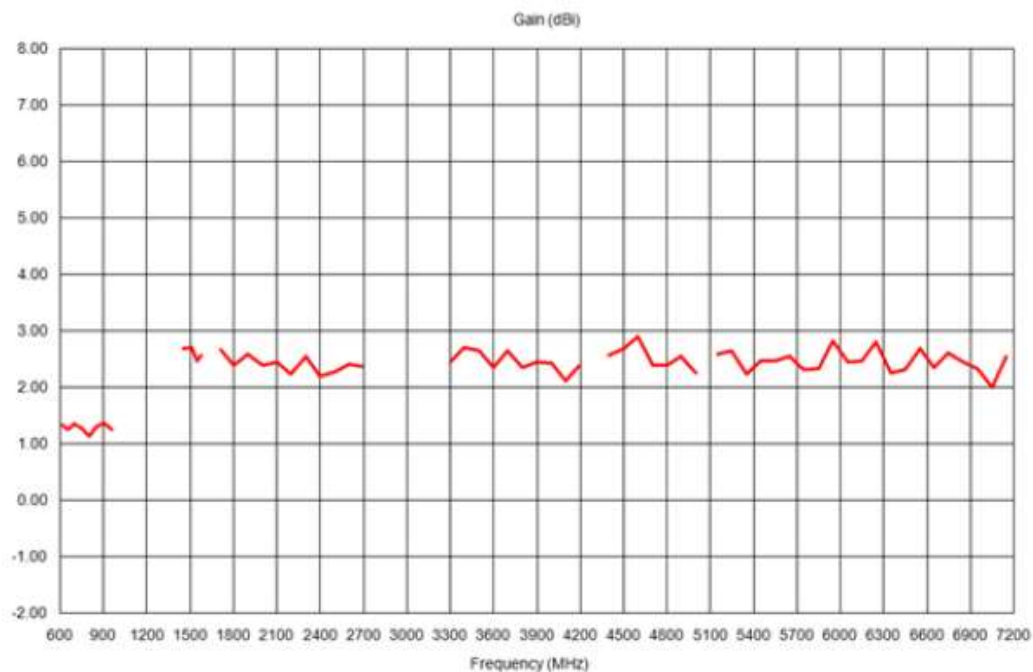


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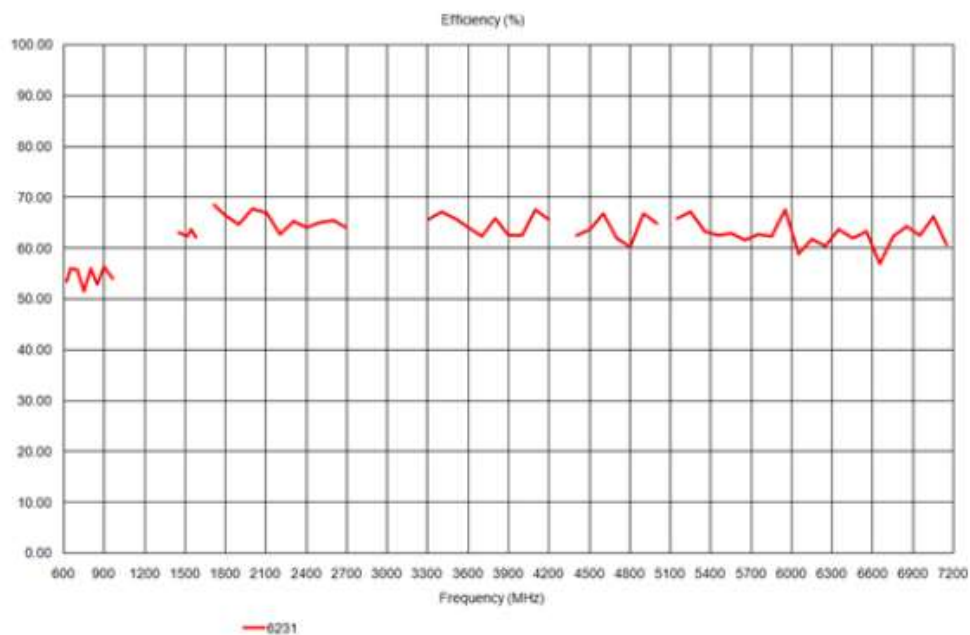


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Gain and Efficiency



Efficiency Chart



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Frequency (MHz)	617	650	700	750	800	850	900	960	1452	1511	1545	1575.412
Gain(dBi)	1.32	1.24	1.34	1.26	1.13	1.29	1.37	1.24	2.68	2.7	2.46	2.57
Efficiency (%)	53.45	56	55.88	51.59	56.01	52.9	56.5	54.06	63.25	62.37	63.8	62.29

Frequency (MHz)	1710	1800	1900	2000	2100	2200	2300	2400	2500	2600	2690
Gain(dBi)	2.67	2.39	2.58	2.39	2.45	2.23	2.54	2.2	2.28	2.41	2.36
Efficiency (%)	68.55	66.43	64.78	67.92	67.13	62.84	65.32	64.08	65.11	65.53	64.16

Frequency (MHz)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200
Gain(dBi)	2.45	2.69	2.63	2.35	2.65	2.35	2.45	2.42	2.11	2.38
Efficiency (%)	65.74	67.29	65.98	64.12	62.47	65.83	62.58	62.66	67.72	65.67

Frequency (MHz)	4400	4500	4600	4700	4800	4900	5000
Gain(dBi)	2.56	2.68	2.89	2.38	2.39	2.54	2.25
Efficiency (%)	62.68	63.86	66.79	62	60.34	66.88	64.98

Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6050	6150
Gain(dBi)	2.58	2.64	2.22	2.47	2.47	2.55	2.31	2.33	2.82	2.45	2.47
Efficiency (%)	65.95	67.17	63.31	62.55	63.05	61.74	62.9	62.4	67.58	58.91	61.86

Frequency (MHz)	6250	6350	6450	6550	6650	6750	6850	6950	7050	7150
Gain(dBi)	2.8	2.25	2.31	2.69	2.34	2.61	2.45	2.32	2	2.55
Efficiency (%)	60.41	63.85	62.06	63.3	56.96	62.41	64.26	62.71	66.23	60.74

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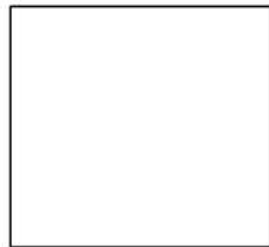
MSL = N/A

Packaging Information



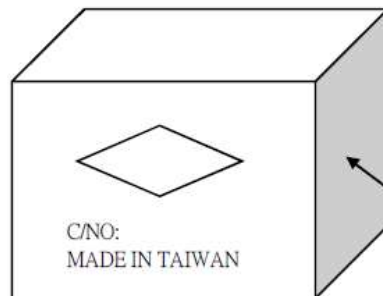
1

1pcs antenna / 1 PE bag
PE bag size 50*250mm



2

50pcs antenna / 1 PE bag
PE bag size 280*450mm



3

300pcs antenna / 1 Carton
Carton size 320*250*290mm

MODEL No.:	
Q'ty:	PCS
N.W:	PCS
G.W:	PCS

Packing q'ty is for reference only, adjust it based on production packing.

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