



Product Name: 5G NR/4G LTE External One Port Cellular Antenna,
Magnetic Mount or Adhesive Mount

Part Number: EC-4B-AS-L01

Features:

- 1*LTE One Port Cellular Antenna
- 5G NR/4G LTE Full Frequency Bands, 698-960MHz, 1710-2690MHz, 3300-3800MHz Supporting
- Customizable Mount Types, Adhesive Mount or Magnetic Mount
- Customizable Cables and Connectors
- RoHS & REACH Compliant

Applications:

- Fleet Management & Telematics
- Vehicle Navigation

5G NR/ 4G LTE External One Port Antenna, Adhesive or Magnetic Mount

MODEL: EC-4B-AS-L01

WI-RD-D-300 V1.0

I. Specifications:

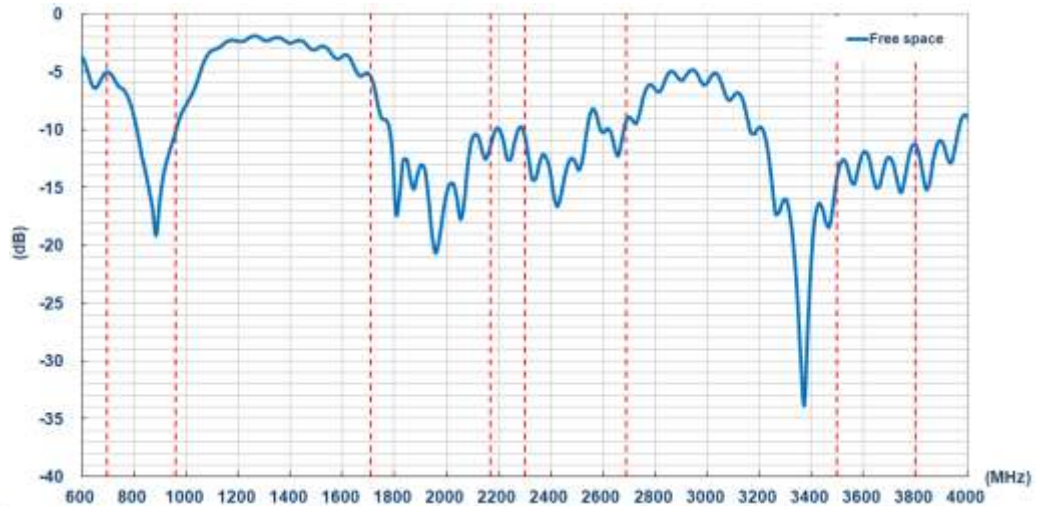
Category		LTE						
Application Band	LTE 700	GSM 850/900	DCS	PCS	UMTS1	LTE2600	5G NR Band	
Frequency (MHz)	698 ~ 824	824 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170	2300 ~ 2690	3300~ 3800	
Efficiency (%)								
Free space	30cm	66.66	75.97	56.78	74.59	72.44	53.39	64.47
	1m	64.84	73.69	54.48	71.50	69.29	50.52	60.58
	2m	59.13	66.57	47.45	62.12	59.73	42.02	49.24
	3m	53.93	60.13	47.32	53.96	51.50	34.95	40.03
	5m	44.86	49.06	31.35	40.73	38.27	24.18	26.44
Average Gain (dBi)								
Free space	30cm	-1.76	-1.19	-2.46	-1.27	-1.40	-2.73	-1.91
	1m	-1.88	-1.33	-2.64	-1.46	-1.59	-2.97	-2.18
	2m	-2.28	-1.77	-3.24	-2.07	-2.24	-3.77	-3.08
	3m	-2.68	-2.21	-3.25	-2.68	-2.88	-4.57	-3.98
	5m	-3.48	-3.09	-5.04	-3.90	-4.17	-6.17	-5.78
Peak Gain (dBi)								
Free space	30cm	3.52	6.04	4.92	6.20	6.20	4.09	5.37
	1m	3.40	5.89	4.74	5.99	5.99	3.85	5.10
	2m	3.00	5.39	4.14	5.34	5.34	3.05	4.20
	3m	2.60	4.89	3.54	4.74	4.74	2.25	3.30
	5m	1.80	3.89	2.34	3.54	3.54	0.65	1.50
V.S.W.R	< 3.5					< 2.5		< 2
Return loss (dB)	< -5					< -8		< -10
Test Condition	Free Space							

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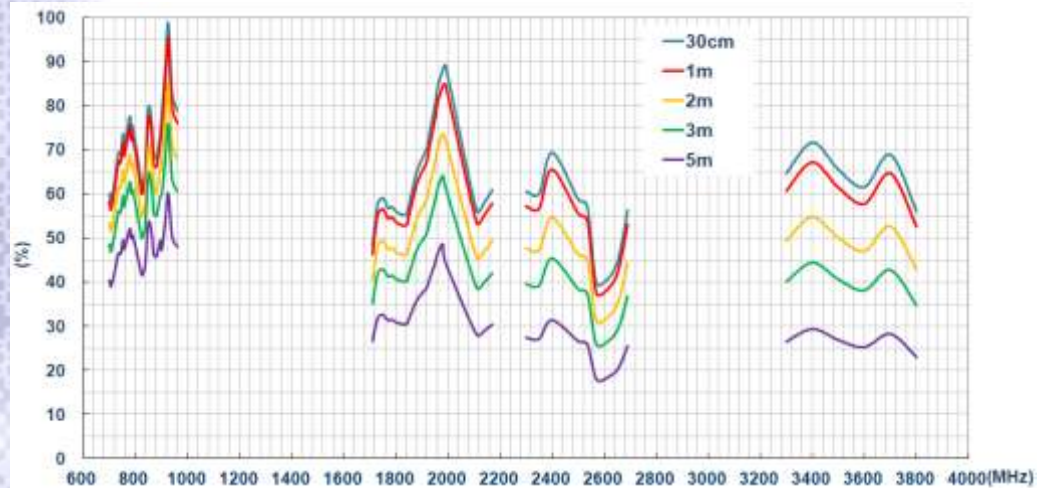
Impedance (Ω)	50
Polarization	Linear
Physical Condition	
Dimension (mm)	ϕ 64.7(D) x 15.8(H)
Environmental Conditions	
Operation Temperature	-40 ~ +85 °C
Storage Temperature	-40 ~ +85 °C

II. Analysis Antenna Performance:

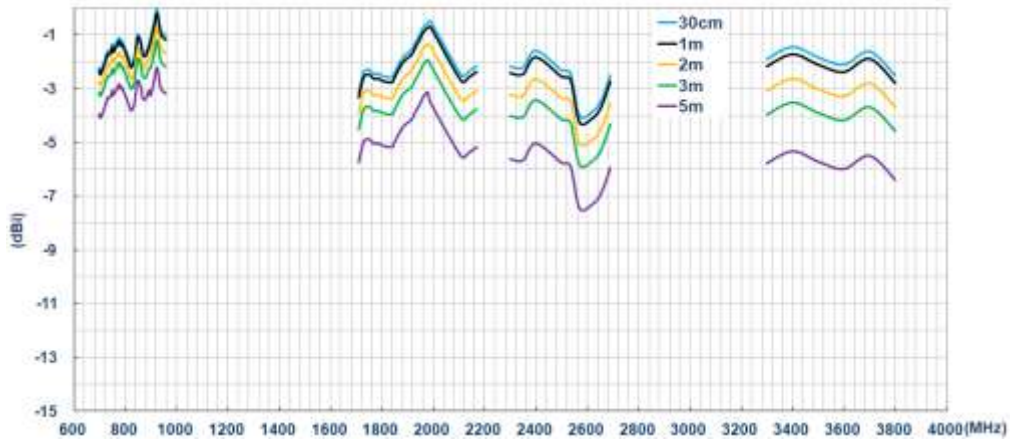
S11 (dB)



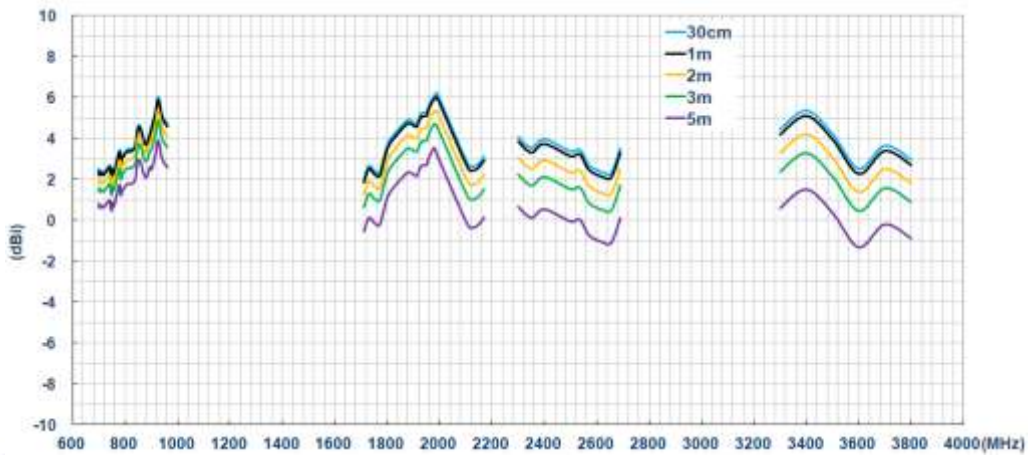
Efficiency (%)



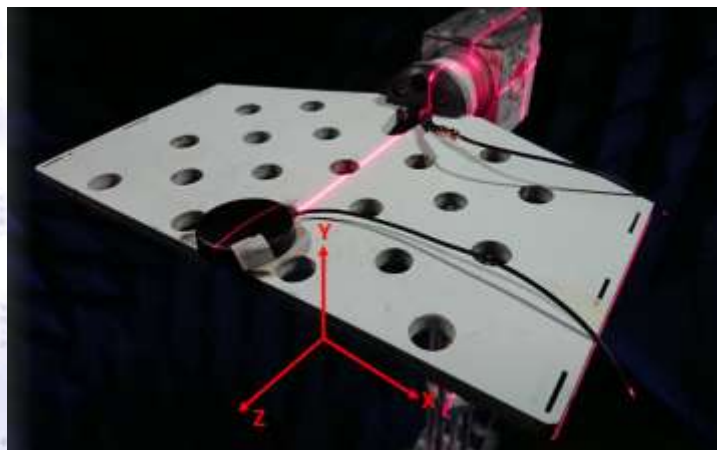
Average Gain (dBi)



Peak Gain (dBi)

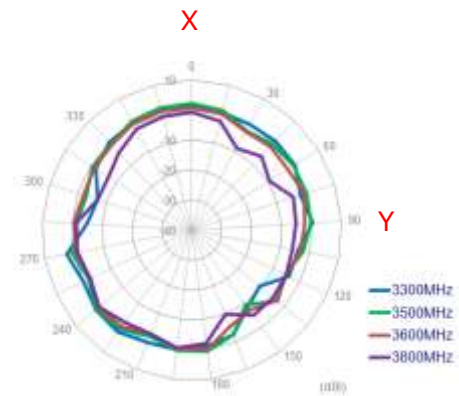
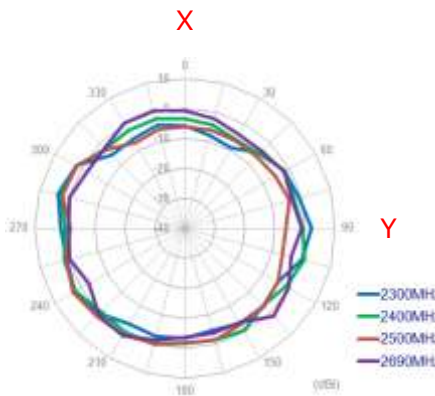
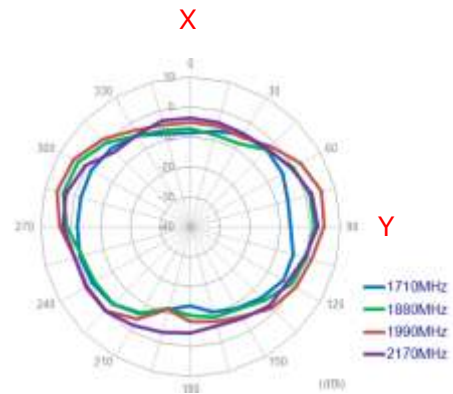
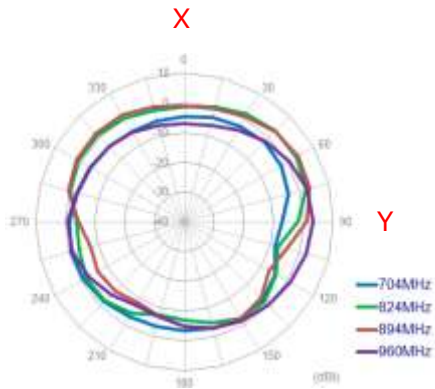


III. Antenna Radiation Pattern Measurement:

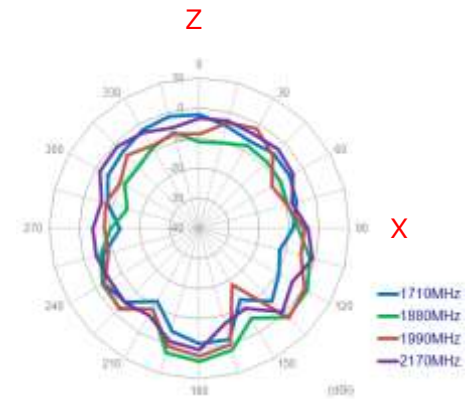
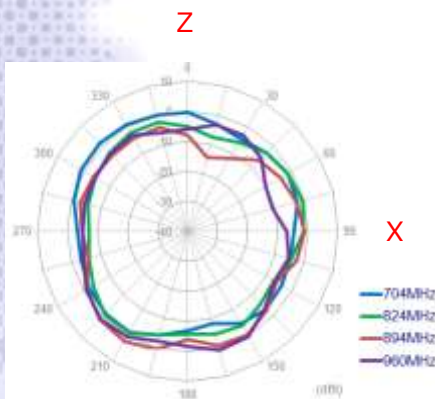


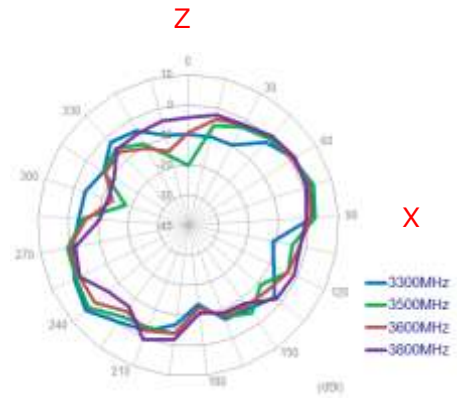
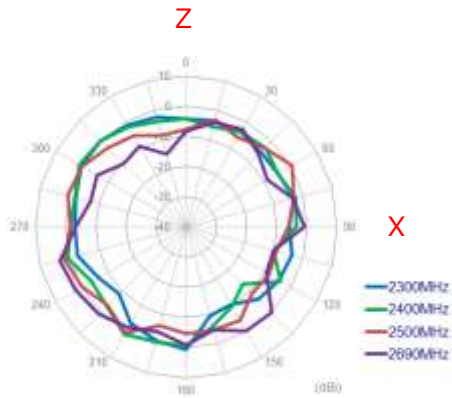
IV. 2D Radiation Pattern :

X-Y Plane

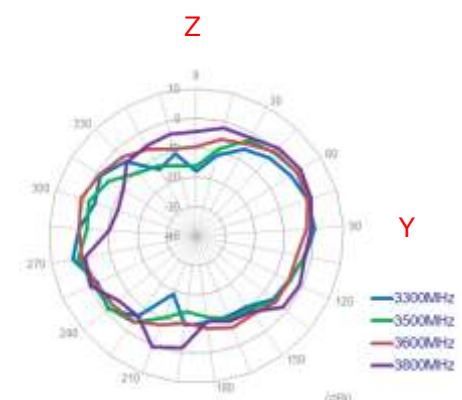
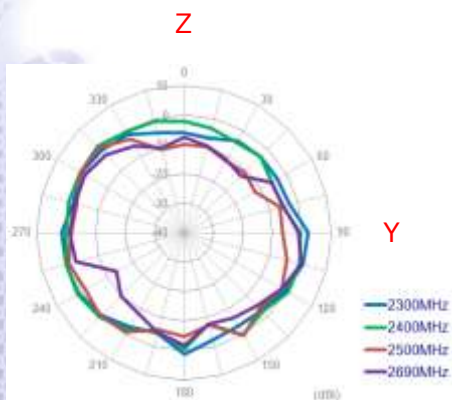
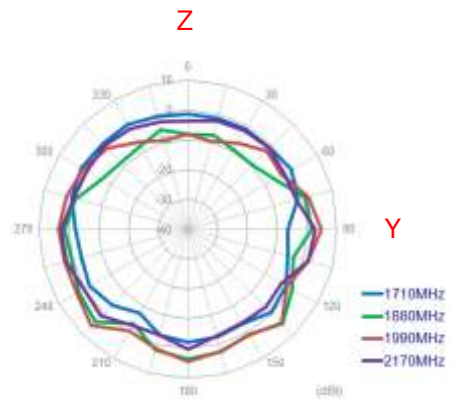
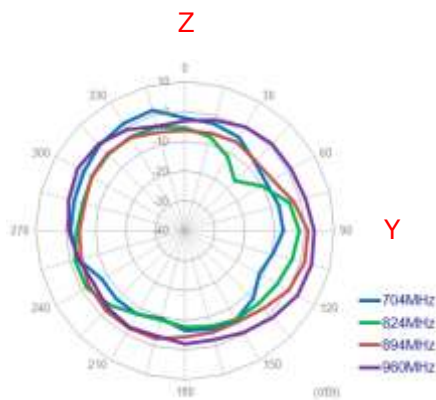


X-Z Plane

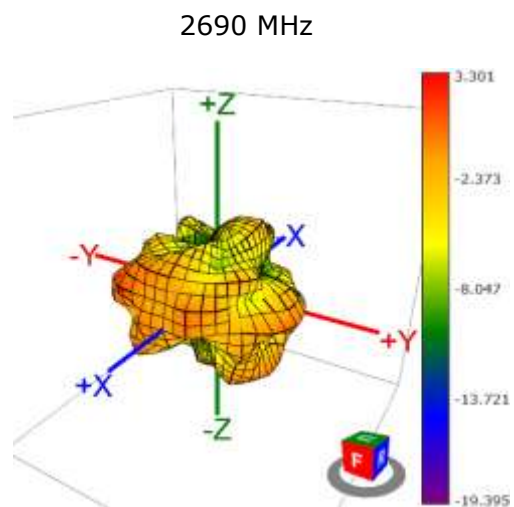
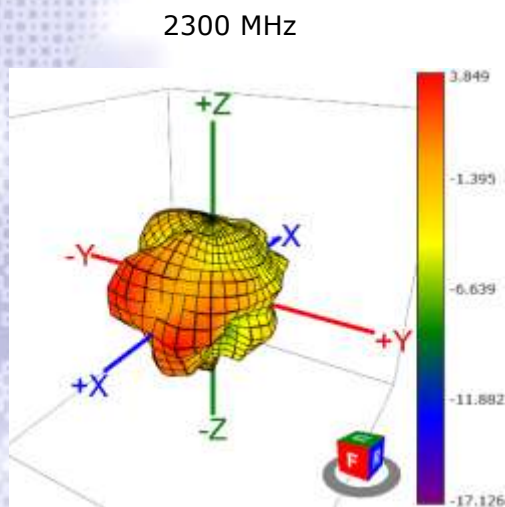
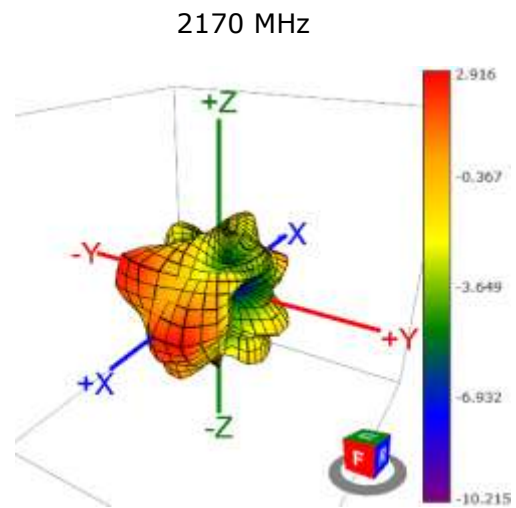
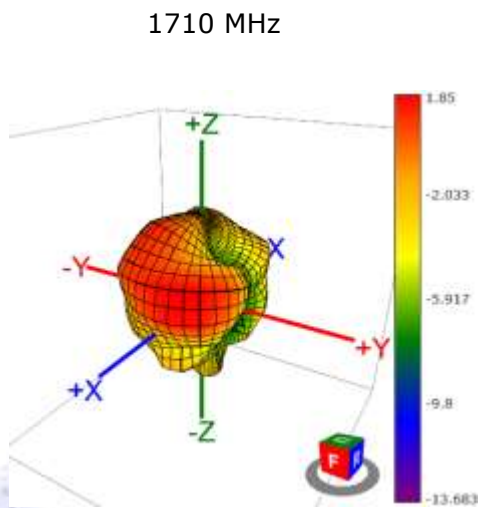
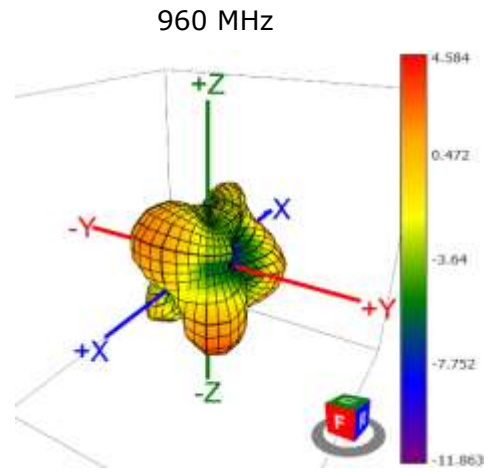
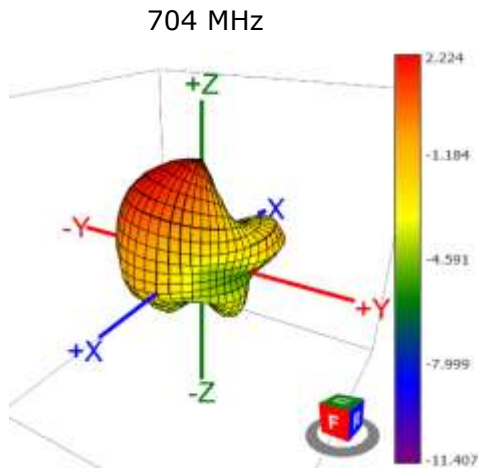




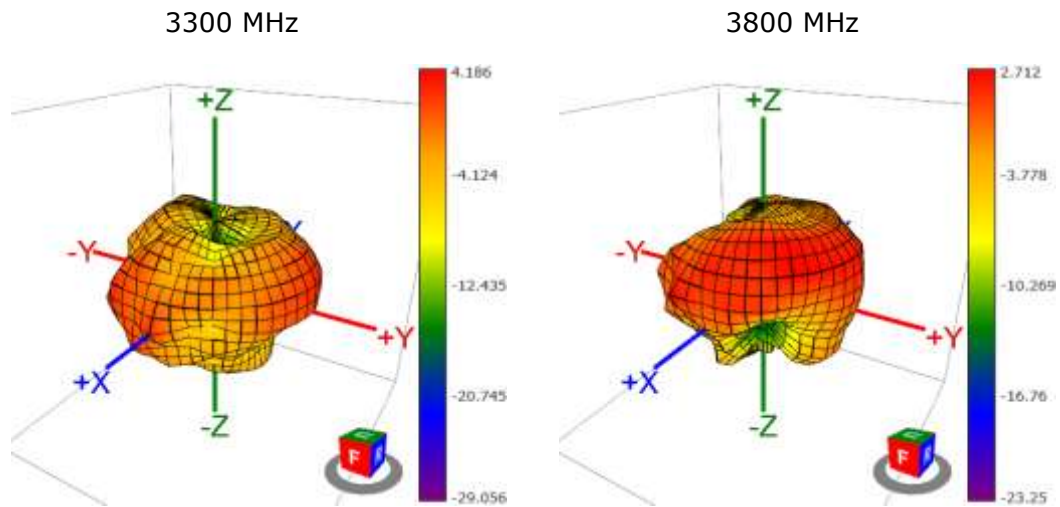
Y-Z Plane



V. 3D Radiation Pattern :



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VI. Mechanical Drawing (Unit:mm):

