

SPECIFICATION FOR APPROVAL

CUSTOMER	
DRIVER TYPE	SS66-401
P/N	
REVISION	A-0
PART DESCRIPTION	Φ66xH11.5mm
DATE	2026-08-25

Speaker Driver Key parameters:

- 1.Impedance: 4 Ω
- 2.Rated Power: 10Wrms
- 3.SPL: 80dB (+/-3 dB @ 1m /1W)
- 4.Frequency Range: 100Hz~25KHz (-10dB)
- 5.THD: < 5% (180Hz~20KHz)
- 6.Fo: 130Hz+/-20%
- 7.Part Out Size: Φ66xH11.5mm
- 8.Part Weight: 59g+/-5%
- 9.Documents attached: Acoustic
Test Curve
Outer Dimension 2D Detail
Environmental Test

Approved By	Checked By	Prepared By
李培军	王二鹏	李康鹏

2. Version Record

Revision	Description of change	Designer	Release Date
A-0	Original Version	李培军	2026/08/25

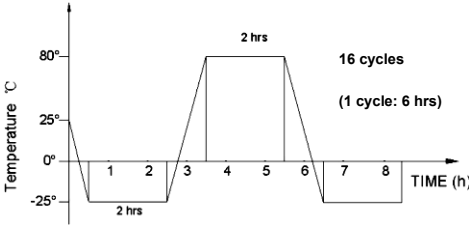
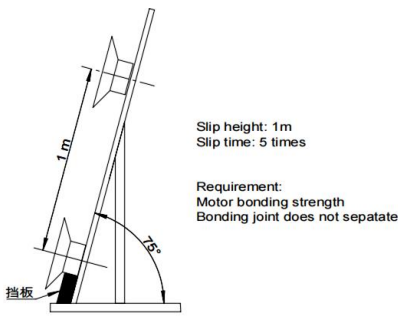
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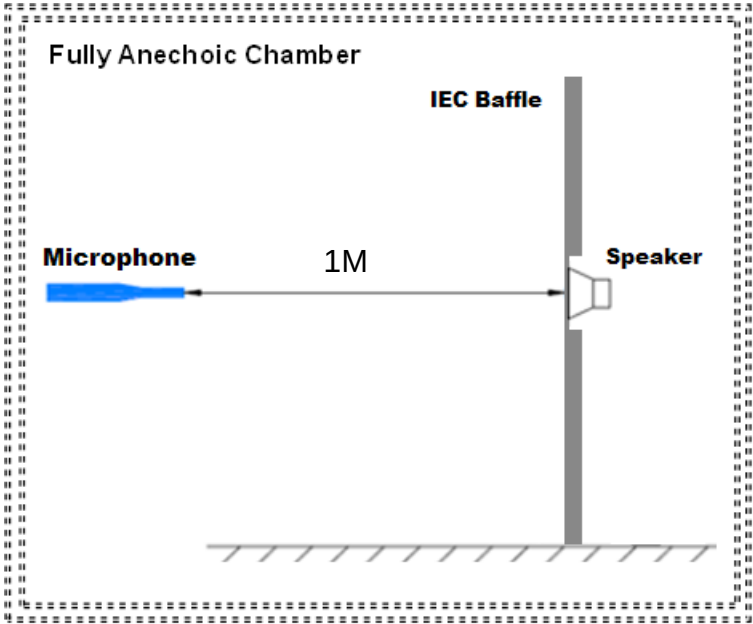
4. Speaker Driver Characteristic

No.	Items	Specifications		
1	Driver Size	Φ66xH7.5mm		
2	Cone Type	Paper Cone with NBR Edge	Bracket Material	PC+ABS
3	Impedance	4Ω+/-15%	DCR	Tweeter 3.4Ω+/-15% Woofer 3.4Ω+/-15%
4	Rated Power	(RMS) 10W	96 hrs. (Pink noise)	
5	Max Power	(RMS) 12W	30 min. (Pink noise)	
6	Resonant Frequency	F0: 130Hz+/-20%	Input 1V with Klippel	
7	Sound Pressure Level	80dB+/-3dB @ 1W / 1m / With Baffle (Average at 200Hz、250Hz、315Hz、400Hz、450Hz、630Hz、800Hz、 1KHz、1.25KHz、1.6KHz、2KHz、2.5KHz、3.15KHz、4KHz、5KHz、6.3KHz、 8KHz、10KHz、12.5KHz)		
8	Effective Frequency Range	100Hz~25KHz(-10dB)		
9	Polarity	When a positive current is supplied from speaker terminal marked "+", and a negative to the other terminal, the diaphragm must move forward.		
10	Total Harmonic Distortion	< 5%	180Hz ~ 20KHz @ 1m 1W	
11	Rub and Buzz	< 2%	130Hz ~ 2KHz @ 1m 1W	
12	Abnormal Noise Test	Providing a sinewave sweep of 130Hz ~ 20KHz of (10Wrms) 6.32Vrms to speaker and without any box vibration or resonance noise.		
13	Total Weight	59 g +/- 5%		
14	Speaker Type	FullRange		
15	Max Amplitude	+/-1.7mm@10W		

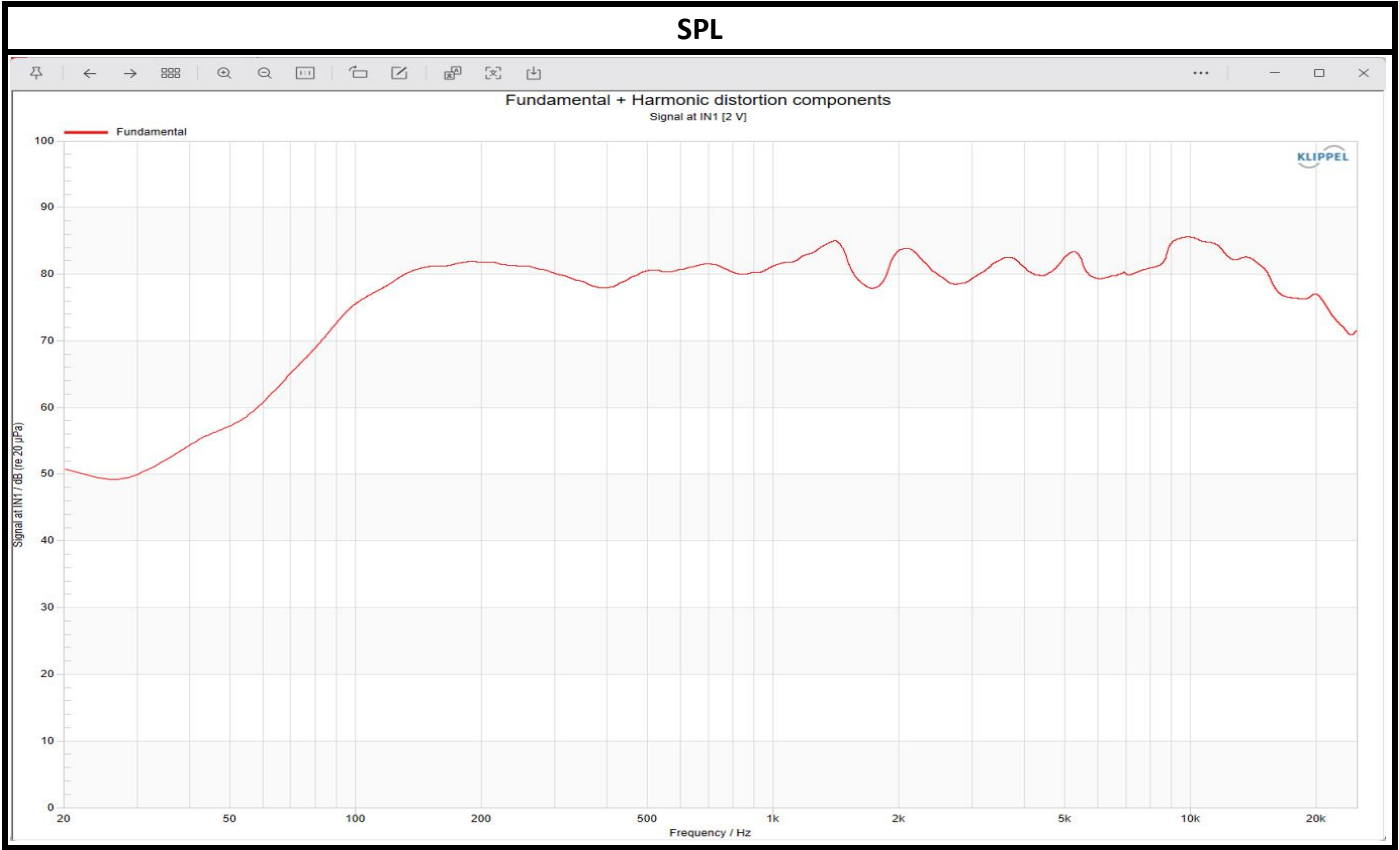
5. Reliability Test

	Test item	Condition	Spec.
Operation Test	1. Rated Loading Test	Rated Power for 96 hrs. Signal: Pink Noise	After placing it at room temperature for 1 hour, check the appearance and confirm the abnormal sound, and compare the frequency response, impedance, distortion and specifications before and after the test.
	2. Max Loading Test	Max power, 1min on, 2min off, repeat 60 cycles Signal: Pink Noise	
	3. High Temperature Test	40°C, Rated Power for 96 hrs. Signal: Pink Noise	
	4. Low Temperature Test	-25°C, Rated Power for 96 hrs. Signal: Pink Noise	
	5. High Humidity Test	40°C, 90~95% R.H., Rated Power for 96 hrs. Signal: Pink Noise	
	6. Life Test (MTBF)	Follow MIL-STD-781 C & D Standard. Environment temperature / Humidity: 60°C, 20%~50% R.H. Sample Q'ty: 50 pcs; Test period: 10 days. Test Signal: White Noise, Rated Power; 1min on, 2min off Confidence Level: At least 90%; MTBF: 30,000 hrs.	
Non-Operation Test	7. High Temperature Storage Test	80°C for 96 hrs.	
	8. Low Temperature Storage Test	-25°C for 96 hrs.	
	9. High - Low Temperature Cycling Test	-25°C for 3 hrs ~ 80°C for 3 hrs at 16 cycles 96 hrs. 	
	10. High Humidity Storage Test	60°C, 90~95% R.H. for 96 hrs.	After placing it at room temperature for 2 hrs., check the appearance for rust.
	11. Salt Spray Test	Environment Temperature Salt concentration: 5% Salt water : 95% distilled water, Period: 24 hours (Atomizing salt water to Speaker for 24 hours continually, then put at room temperature place after 2 hours to check whether got rust on it. "TTL 26 hours=24+2").	
	12. Speaker Drop Test	 Slip height: 1m Slip time: 5 times Requirement: Motor bonding strength Bonding joint does not separate	

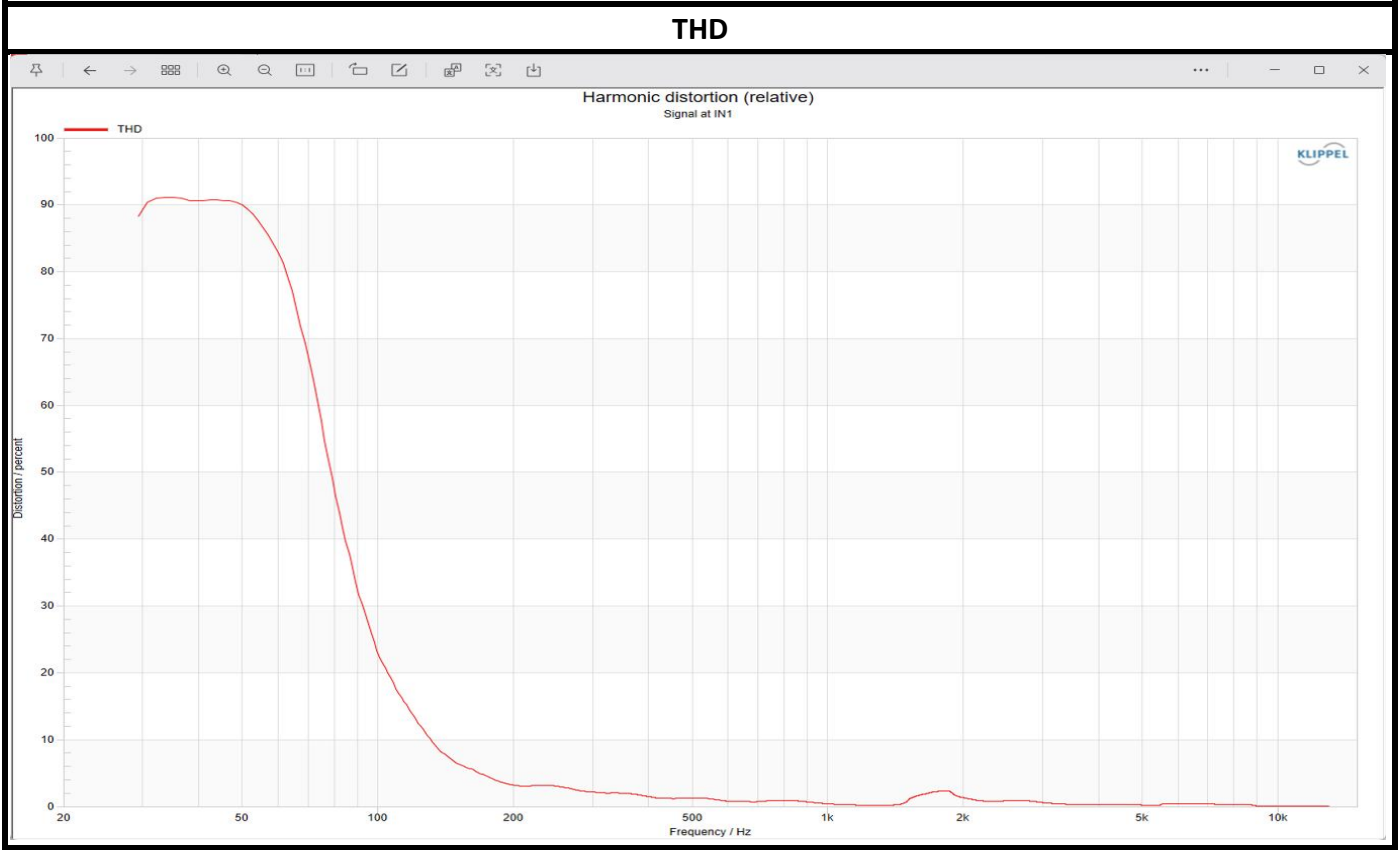
6. Test Method for SPL / THD / IMP of Speaker Driver

Test Climatic Condition	
Ambient Temperature	15°C~35°C, preferably at 23°C
Relative Humidity	25%~75%R.H., preferably at 50%
Signal Setup	
Sine-Sweep	20Hz~25KHz
Power for SPL / THD	1W(2Vrms)
Voltage for Impedance	1Vrms
Devices Layout	
Chamber Type	Fully Anechoic Chamber
Microphone	Free-Field Microphone
Distance between Microphone and Speaker	1m on axis of speaker with IEC baffle
Measuring instrument	KLIPPEL
	

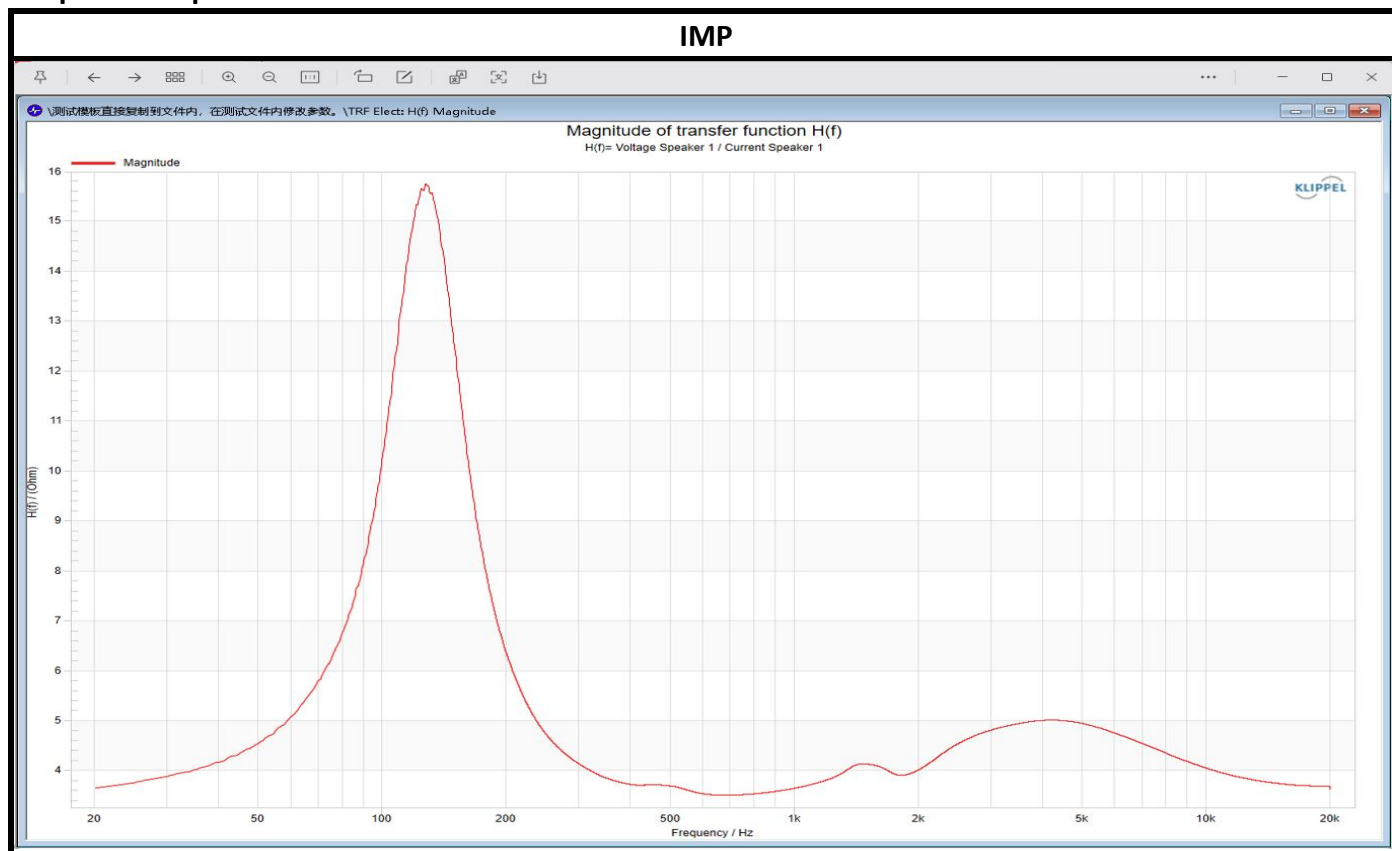
7. Speaker Sound Pressure Level Curve



8. Speaker Distortion Curve



9. Speaker Impedance Curve



10. Product Picture



11. Product Dimension 2D Detail

Note:

1. 所有部件量产前均需送样及尺寸检验报告、环保报告至涌拓电声工程师承认。

2. 图中含有圈内数字标识的尺寸为重点管控尺寸，供应商出货前需检验并出具报告。

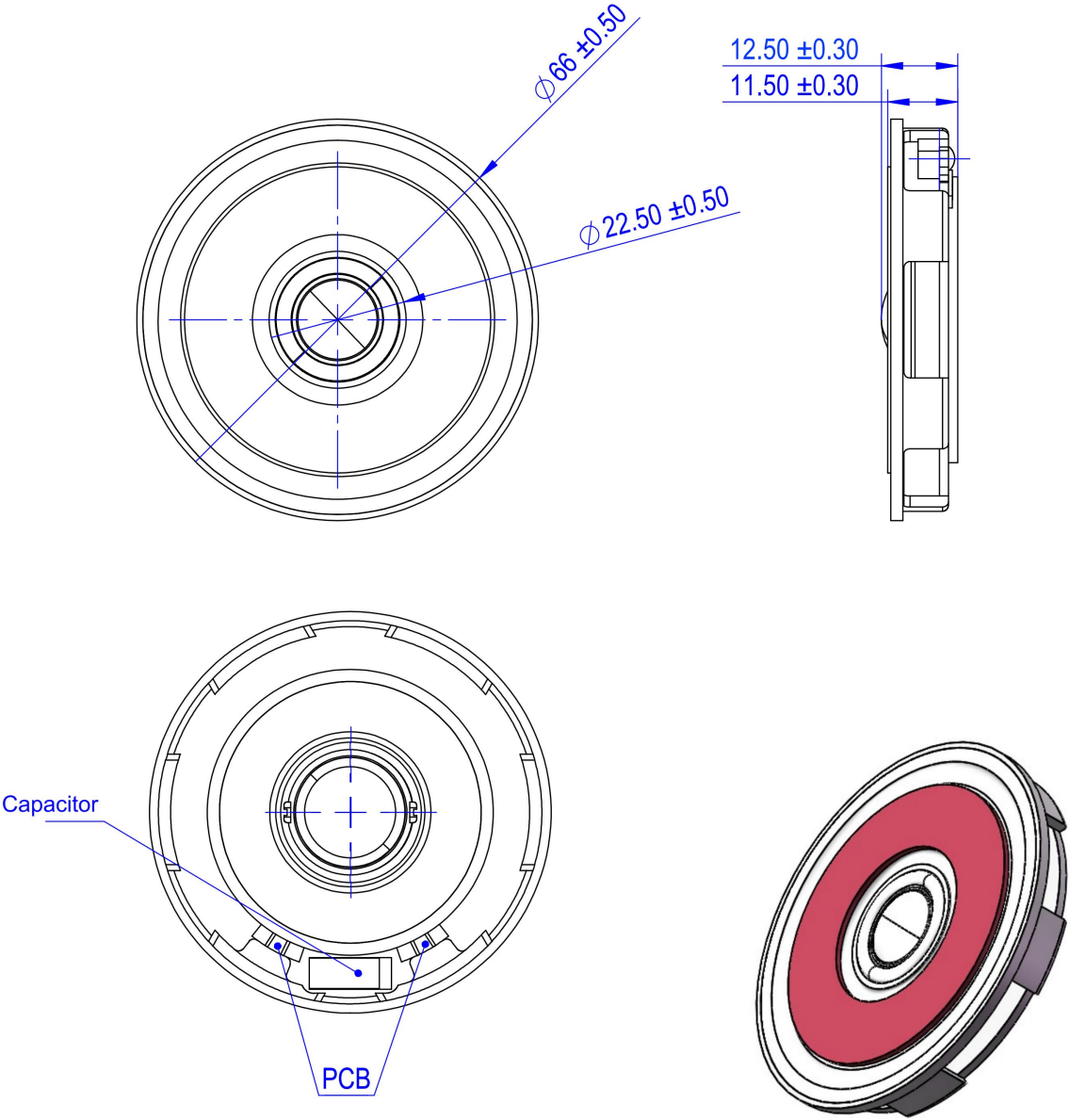
3. 图中尺寸或公差有任何变更均需通知涌拓电声的工程师并获得承认后方可变更。

3. 环保必须符合涌拓电声《有害物质内部管控标准》文件中关于ROHS2.0 REACH HF的限定值。所有材料均要求不含塑化剂。

4. 图中所有尺寸及公差均为最终要求的尺寸，未注的尺寸请参考3D图；

未注的公差请按右侧标准公差管控。

版本	描述	修订人	日期	ECN NO.
A0		李培军	20260825	



Note:
The appearance of the film shall not be dirty and rubber overflow
Product listening standards: is clear, no noise;
Voltage: 6.3v Bandwidth: 100~20KHz
F0: 130±10%Hz

		安徽涌拓电声有限公司 ANHUI YONGTUO AUDIO TEL:0550-7022788 ADD:安徽省滁州市天长市经三路201号			标准公差					客户型号:	
					角度 ±0.25°						
报价	当前版本号	比例: 1:1	单位: MM	Dimension					产品名称: SS66-401		
	01	页数: 1/1	图纸尺寸: A4	F	G	H	J				
样品	制图	审核	承认	0~8	±0.09	±0.1	±0.1	±0.2	料号:		
				8~25	±0.09	±0.15	±0.15	±0.3			
试产	李培军 王二鹏 李康鹏			25~80	±0.12	±0.2	±0.25	±0.4	部件名称:		
				80~250	±0.25	±0.3	±0.4	±0.6			
量产				250~800	±0.5	±0.6	±0.8	±1.0			
				800~2500	±1.0	±1.0	±1.5	±1.7			
				2500~	±2.0	±2.0	±3.0	±3.0			

Third Angle Projection

