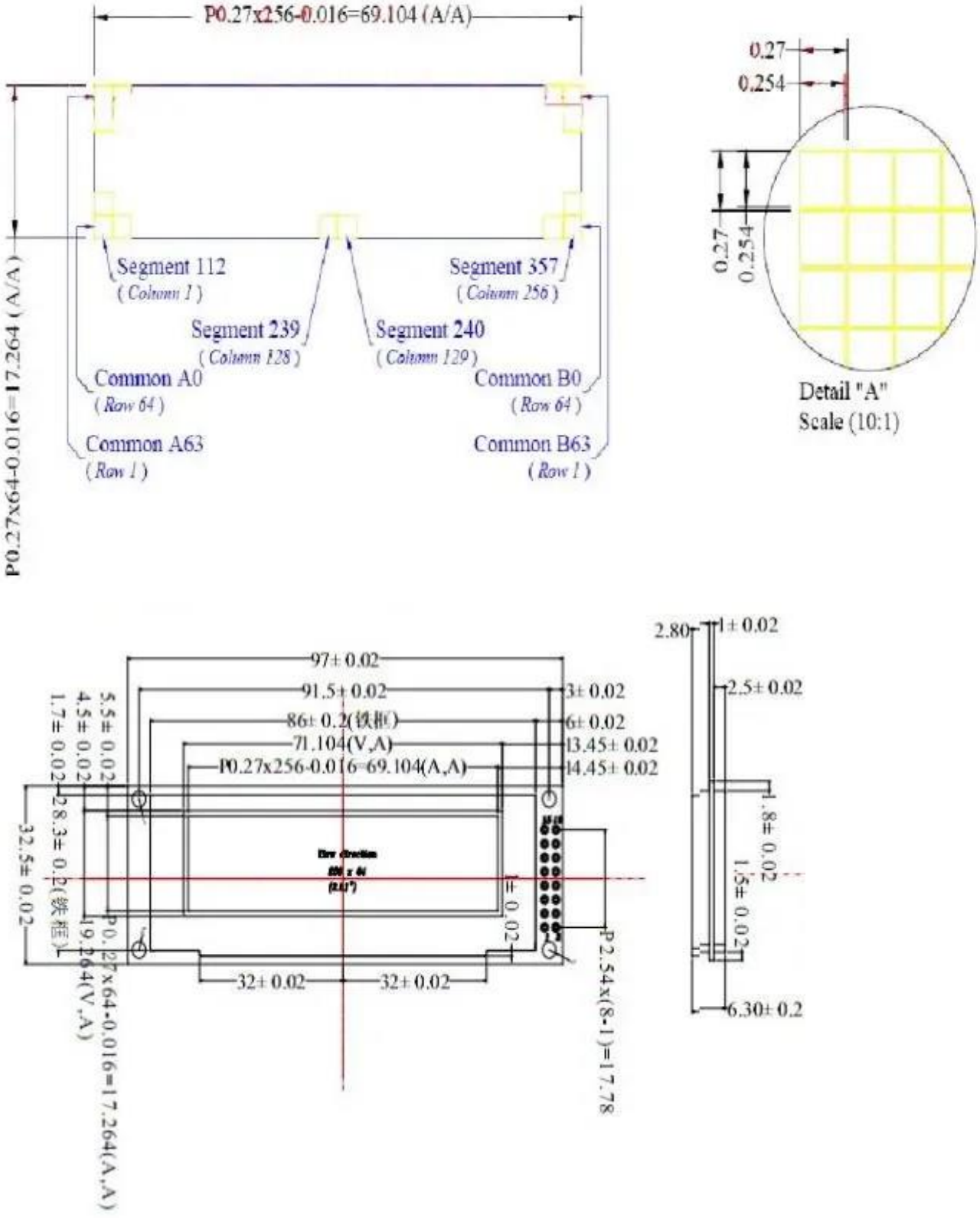
1 Display Specifications

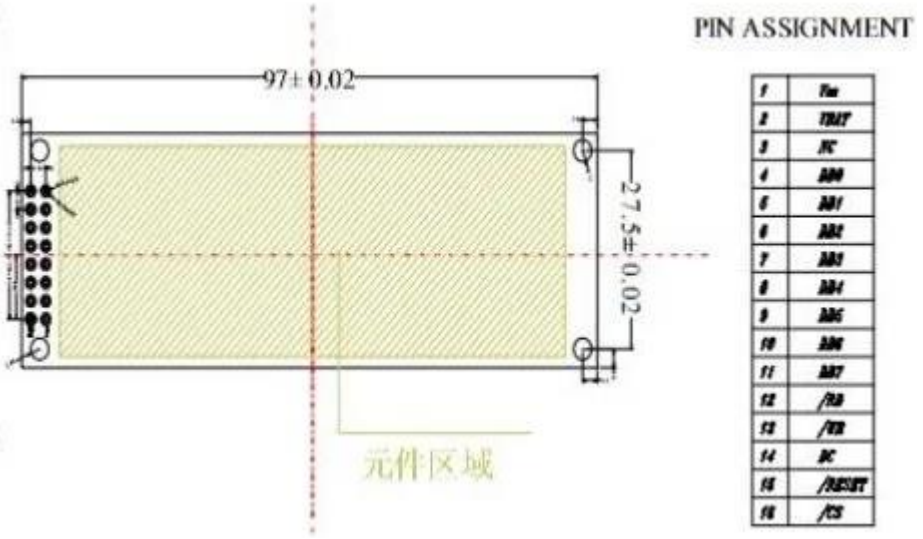
Item	Specs
Display Mode	Passive Matrix—OLED&Yellow/Blue
Interface	8-Bit 68XX/80XX Parallel、 SPI
Drive Duty	1/64
Driver IC	SSD1322
Shell	0.5T
Other	

2 Mechanical Specifications

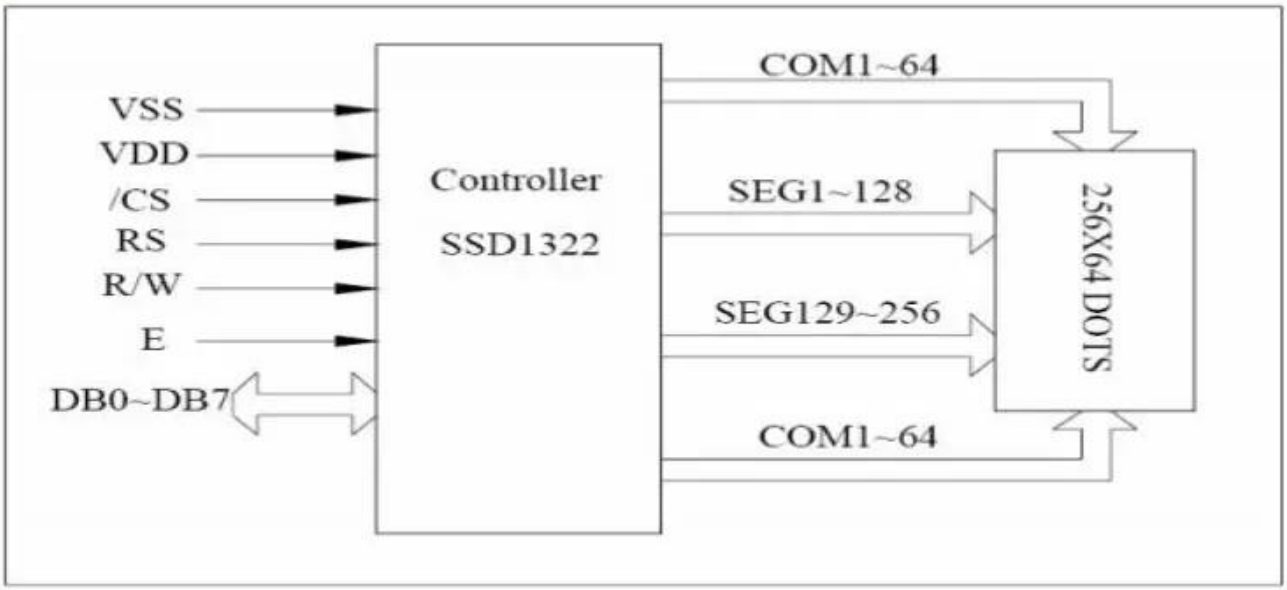
Item	Specs	Unit	Remark
Outline Drawing	97.0(W)x32.5(H)x6.3Max(T)	mm	
View Area	71.104(W)x319.264(H)	mm	
Active Area	69.104(W)x17.264(H)	mm	
Lattice	256dots x 64dots	--	
Pixel Pitch	0.27(W)x0.27(H)	mm	
Pixel Size	0.254(W)x0.254(H)	mm	

1.3 Active Area & Pixel Construction





1.6 Elements Block Diagram



(MCU Interface Selection: By the Module internal of the Pin BS1 and Pin BS2)
Pins Connected to MCU interface:D7~D0,/RD, /WR,/CS,DC,and /RES.

2. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Power Supply	VBAT	3.3	5	V	-
Logic Supply Voltage	VDD	2.5	3.3	V	1,2
Driver Supply Voltage	Vcc	0	15	V	1,2
Vcc Supply Current	Icc	-	55	mA	1,2
Operating Temperature	Top	-40	85	℃	-
Storage Temperature	Tstg	-45	90	℃	-

Note 1: All the above voltage are on the basis of "GND=0V".

Note 2: When this module is used beyond the above absolute maximum Ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 3. "Electrical Characteristics". If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate.

3.Electrical Characteristics

3.1 DC Charateristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Supply Voltage	VDD		2.8	3.0	3.3	V
High Level Input	VIH	Iout=100Ua, 3.3MHz	0.8xVdd	-	Vdd	V
Low Level Input	VIL	Iout=100Ua, 3.3MHz	0	-	0.2xVdd	V
Logic Current	IVBAT	Note	-	250	--	mA
Display voltage	Vcc	Ta=25℃	11.5	12.0	12.5	V

Note:VDD=3.0V,VCC=12.0V(VDD,VCC Supply by the module internal generate) 100% Display Area Turn on.

3.2 Optics & Electrical Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Brightness(Yellow)	Lbr	With Polarizer (Note 3)	60	90	-	Cd/m2
C.I.E.(Yellow)	(X) (Y)	With Polarizer	0.44 0.46	0.48 0.50	0.52 0.54	
Dark Room Contrast	CR		-	>2000:1	-	
View Angle			>160	-	-	degree

* Optical measurement taken at VDD =3.0V.VCC=12V,and software configuration follows Sec4.8 "Software Initial Setting".

5. Reliability

5.1 Contents of Reliability Tests

Item	Conditions		Criteria
High Temperature Operation	85℃	TBD	The operational Functions work
Low Temperature Operation	-40℃	TBD	
High Temperature Storage	90℃	TBD	
Low Temperature Storage	-45℃	TBD	
High Temperature/Humidity Operation	60℃	TBD	
Thermal Shock	-40℃⇔90℃	TBD	

* The samples used for the above tests do not include polarizer.
* No moisture condensation is observed during tests.

5.2 Lifetime

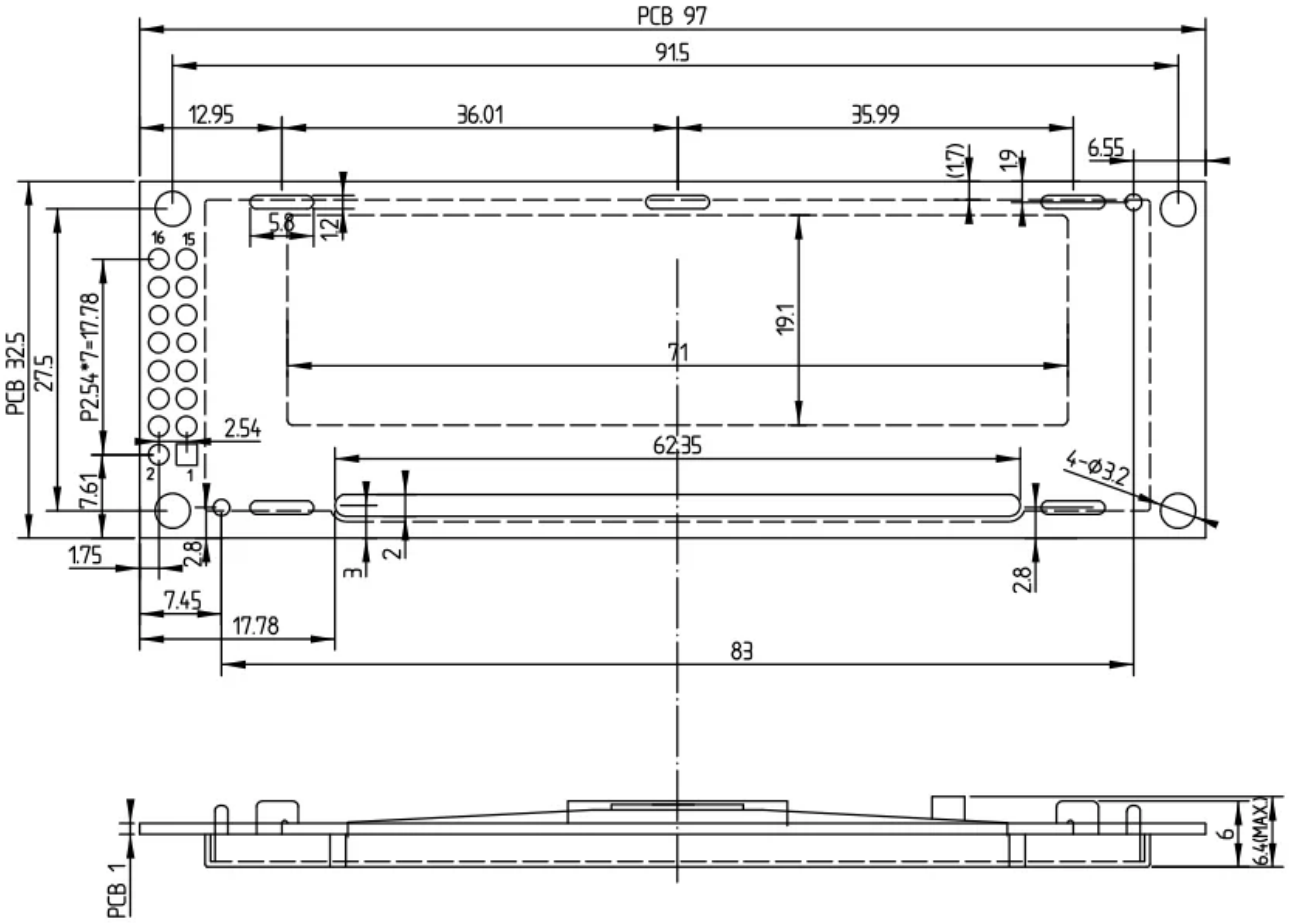
End of lifetime is specified as 50% of initial brightness.

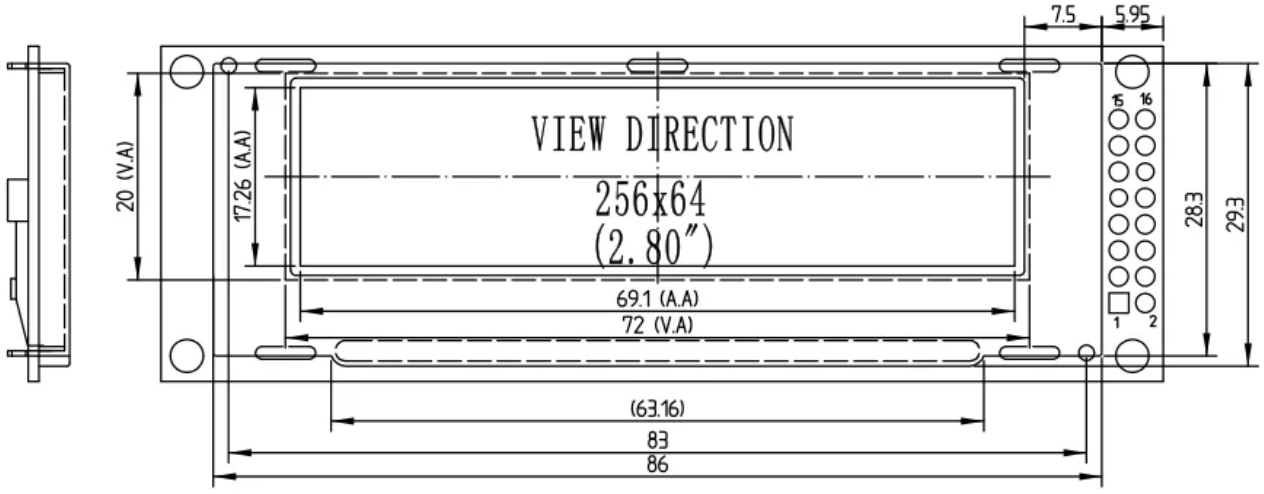
Parameter	Min	Max	Unit	Condition	Notes
Operating Life Time	50,000	-	Hrs	80 cd/m2,50%checkerboard	6
Storage Life Time	100,000	-	Hrs	Ta=25 ℃,50%RH	-

Note 6: The average operating lifetime at room temperature is estimated by the accelerated operation at high temperature conditions.

5.3 Failure Check Standard

After the completion of the described reliability test, the samples were left at room temperature for 2 hrs prior to conducting the failure test at 23+/-5℃; 55+/-15%RH.


PCB 97
91.5
12.95
36.01
35.99
6.55
(1.7)
1.9
5.8
1.2
19.1
71
PCB 32.5
27.5
P2.54*7=17.78
2.54
62.35
4-Ø3.2
7.61
1.75
2.8
3
2
2.8
7.45
17.78
83
PCB 1
6
6.4(MAX.)


7.5
5.95
VIEW DIRECTION
256x64
(2.80")
20 (V.A)
17.26 (A.A)
69.1 (A.A)
72 (V.A)
28.3
29.3
15
16
1
2
(63.16)
83
86