

Product Specification

Number: L-KLS9-1602A-GB

Name: Character LCD Module

Customer: _____

Date: 2025-04-23

Customer Signature:



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NINGBO KLS ELECTRONIC CO; LTD

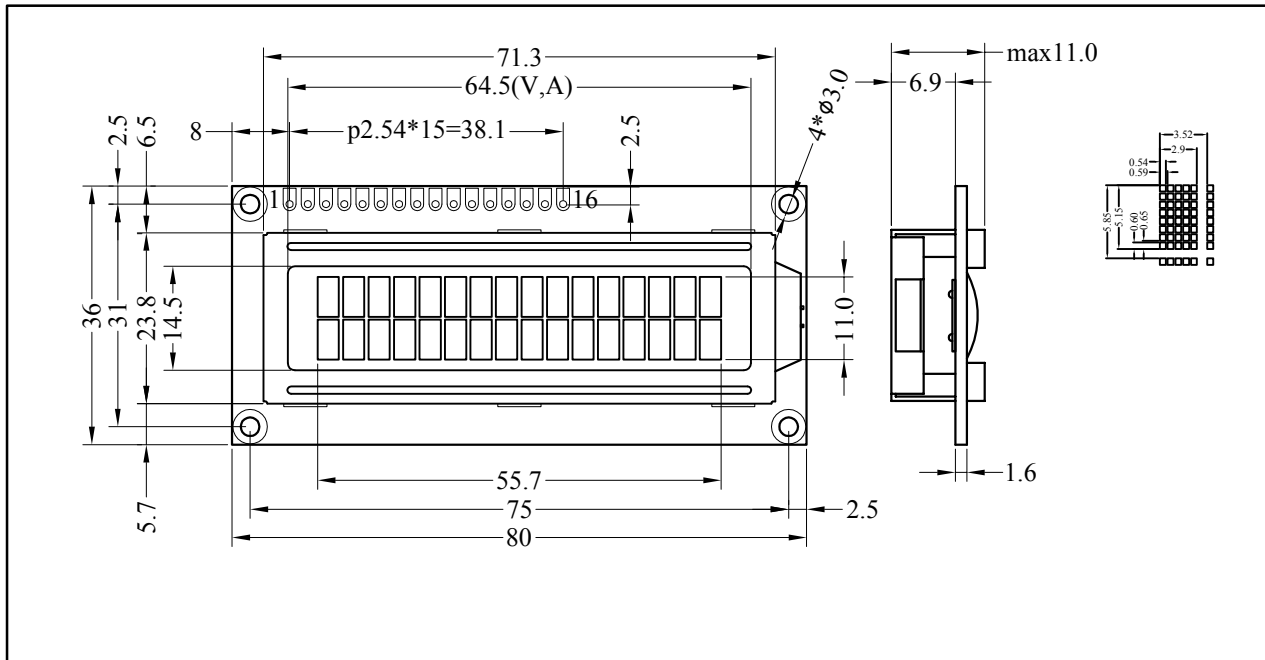
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**ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN
INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

Compi	Check	Review	Approva
Jenny	Jack.C		

Part name	Character LCD Module	Date	2025-04-23
Part number	L-KLS9-1602A-GB	Edition	V1
Department		Page	2/2



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	Vdd - Vss	-0.3	5.5	V
Supply Voltage(LCD)	Vdd - V0	-0.3	4.5	V
Input Voltage	Vi	-0.3	Vdd + 0.3	V
Operating Temp.	Topr	-15	+65	°C
Storage Temp.	Tstg	-20	+70	°C

MECHANICAL DATA

Item	Max.	Unit
Module Size (W X H X T)	80.0 X 36.0 X 11.0	mm
Viewing Area(W X H)	64.5 X 14.5	mm
Character Size(W X H)	2.90 X 5.15	mm
Dot Size(W X H)	0.54 X 0.60	mm
View Angle	6 O'Clock	

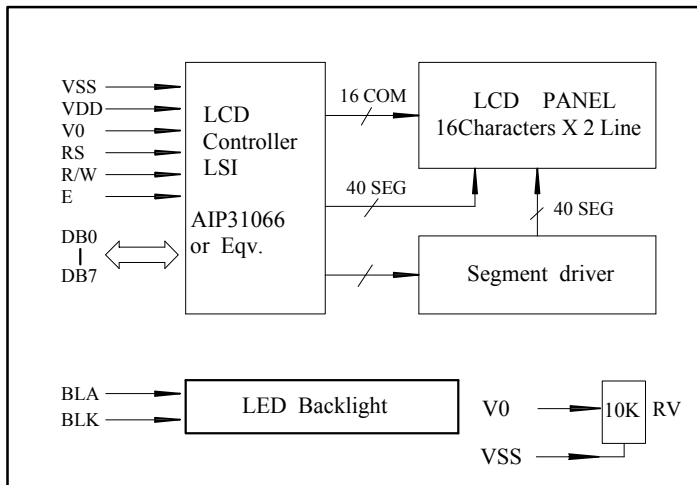
ELECTRICAL CHARACTERISTICS (Vdd=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	Vih	--	2.0	--	Vdd	V
Input Low Voltage	Vil	--	-0.3	--	0.8	V
Output High Voltage	Voh	Ioh=-0.2mA	2.4	--	Vdd	V
Output Low Voltage	Vol	Iol=-1.6mA	0	--	0.4	V
Supply Current	Idd	Vdd=5.0V	--	1.5	3.0	mA
LCD Driving Voltage	Vdd - V0	Ta=25°C	--	4.7	--	V

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	VSS	0V	Power GND
2	VDD	+5V	Power supply for logic
3	V0	--	Operation voltage for LCD
4	RS	H/L	H:Data L:Instruction code
5	R/W	H/L	H:Read L:Write
6	E	H/L	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	BLK	0V	Power supply for LED backlight
16	BLA	+5V	

BLOCK DIAGRAM



LCD Type

LCD Color	LED Backlight
FSTN(Grey)	LED/WHITE/3.0V (≤30mA)