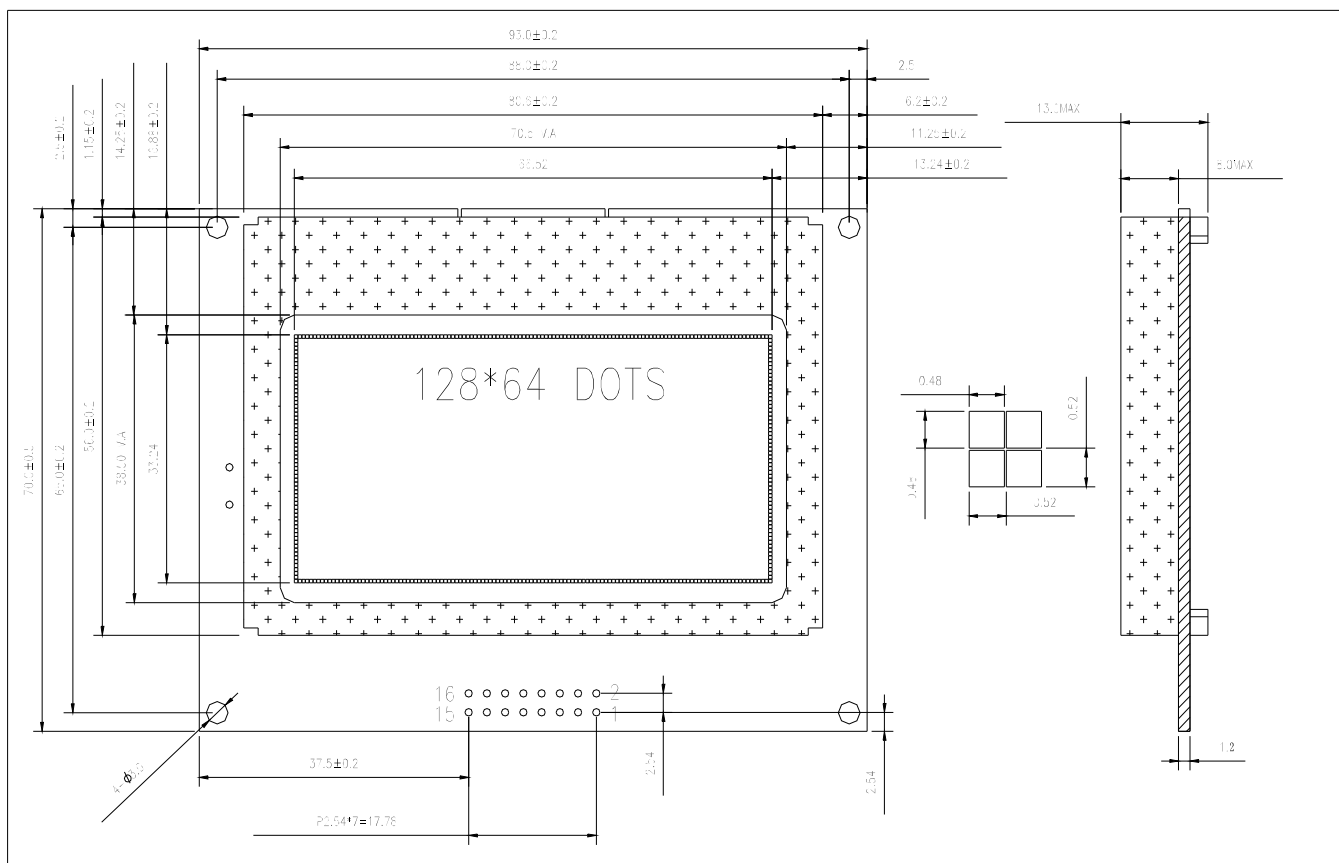
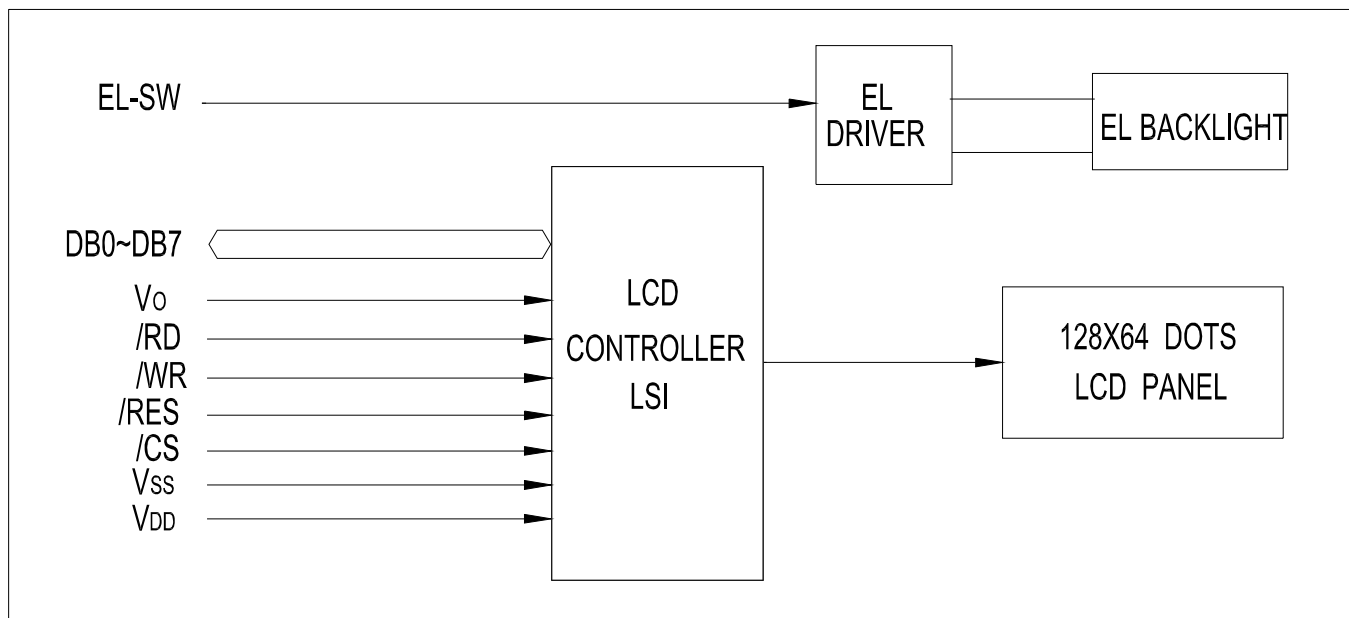


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS Ta=25 °C V_{DD}=3.0V±0.25V

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Power Supply Voltage	V _{DD} -V _{SS}	25°C	2.7	3.0	3.6	V
LCD Operation Voltage	V _{OP}			10.5	15	V
LCM Current Consumption	I _{DD}			0.09	0.12	mA
Backlight Forward Voltage	V _F			110		Vrms

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value		
			Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	25°C	-0.3	7	V
Supply Voltage (LCD)	$V_{DD}-V_O$		-0.3	17	V
Input Voltage	V_{IN}		-0.3	$V_{DD}+0.3$	V
Operating Temp.	T_{OPR}		-20	70	°C
Storage Temp.	T_{STG}		-30	80	°C

5.0 PIN ASSIGNMENT

PIN No.	Symbol	Description
1	A0	H: Data signal L: Instruction signal
2	RD	Rear mode
3	WR	Write mode
4	/RES	Reset signal
5	/CS	Chip select pin
6	GND	Ground
7	EL_SW	EL Back Light Enable Pin
8	VDD	Supply Voltage For Logic
9	D0	DATA BIT 0
10	D1	DATA BIT 1
11	D2	DATA BIT 2
12	D3	DATA BIT 3
13	D4	DATA BIT 4
14	D5	DATA BIT 5
15	D6	DATA BIT 6
16	D7	DATA BIT 7

Remark

1. LCD option: STN, FSTN .
2. Customized module.
3. Backlight option: EL backlight feature, other specs not available on catalog is under request.