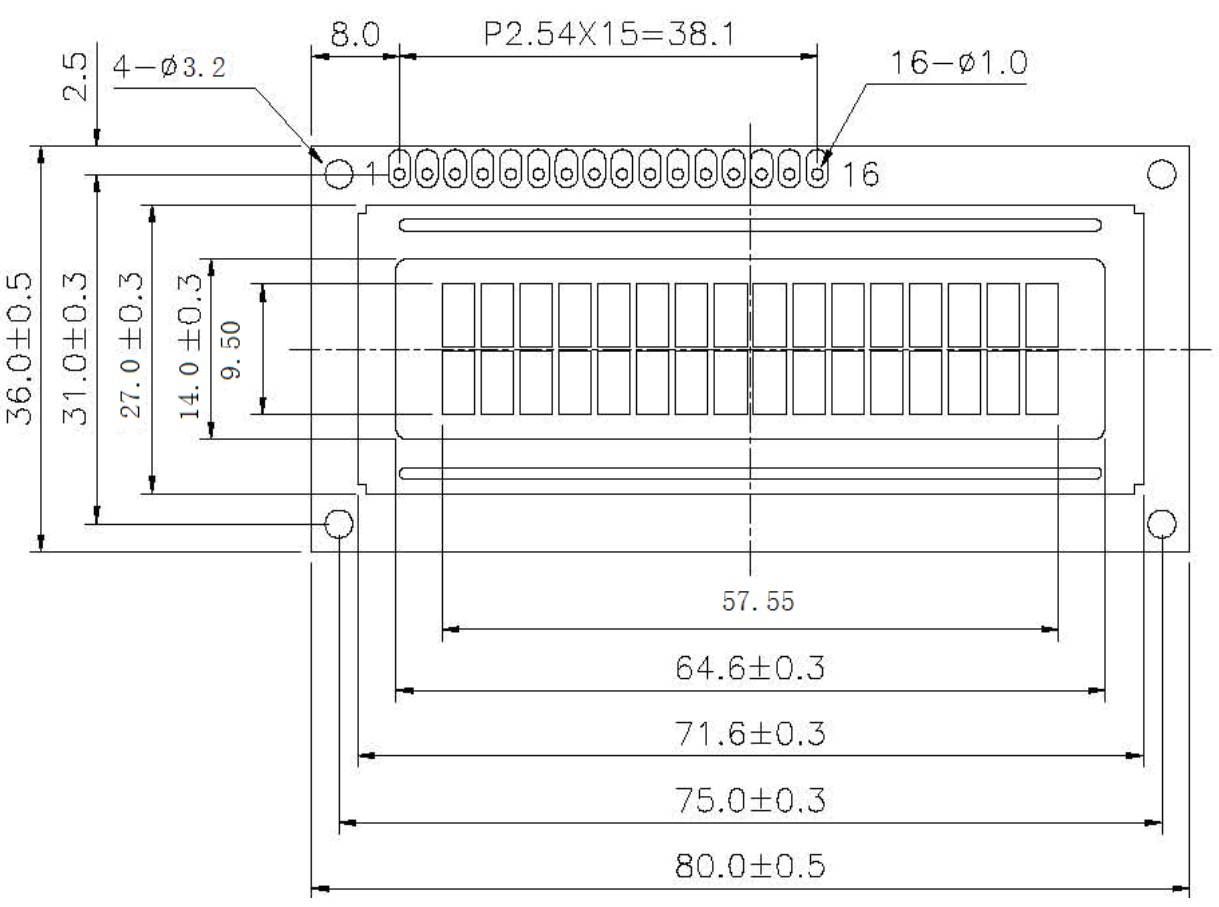
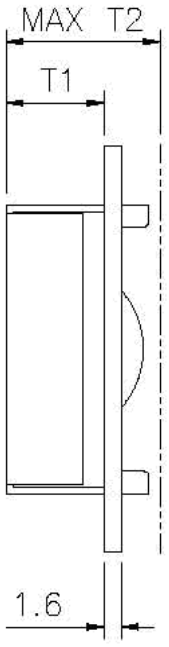
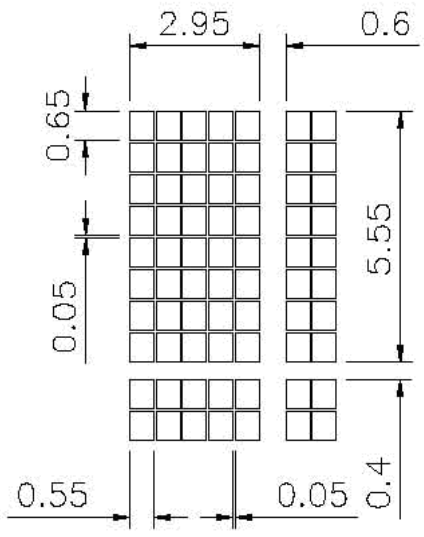
GDM1602A-YG 16 character*2lines With Yellow green backlight







TYPE	T1	T2
W/O LED	4.7±0.3	9.5
WITH LED	8.9±0.3	14.0

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V_{DD} -Vss	-0.3	7	V
Supply Voltage(LCD)	V_{DD} -V0	-0.3	10	V
Input Voltage	V_I	-0.3	V_{DD}+ 0.3	V
Operating Temp.	T_{opr}	-10	60	°C
Storage Temp.	T_{stg}	-20	70	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	80.0 x36 .0 x 14.0	mm
Viewing Area (W x H)	64.6 x 14.0	mm
Dot Pitch (W x H)	0.70x 0.60	mm
Dot Size (W x H)	0.65 x 0.55	mm
Weight	Approx. 36	g

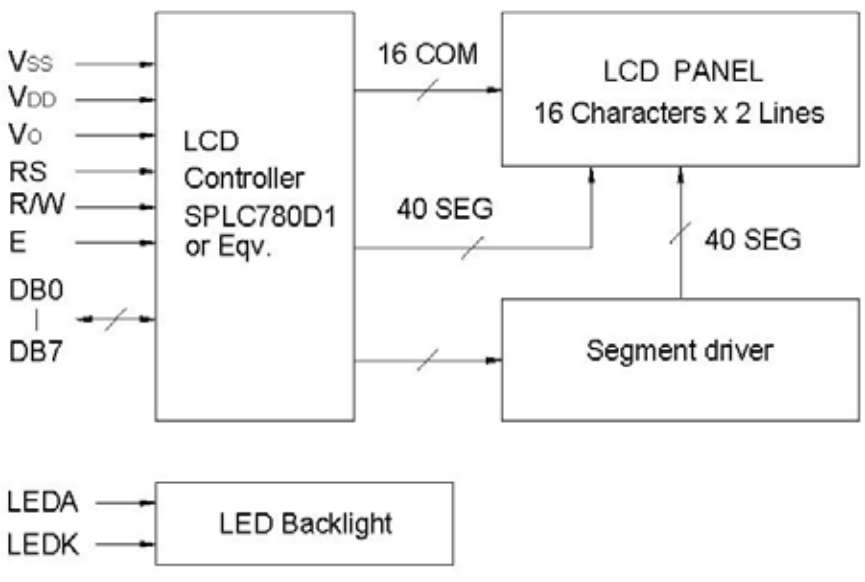
ELECTRICAL CHARACTERISTICS (V =5V± 0.25V)

Item	Symbol	Condition Test	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}		2.5		VDD	V
Input Low Voltage	VIL		-0.3		0.6	V
Output High Voltage	VOH	= -0.1mA I_{OH}	2.4		V_{DD}	V
Output Low Voltage	V_{OL}	= 0.1mA I_{OL}	0		0.4	V
Supply Current	DDI	V_{DD}= 5.0V		1.5	3	mA
LCD Driving Voltage	-VV_{DD} o	Ta=25°C		4.8		V

INTERFACE DEFINITION

Pin	Symbol	Level	Function
1	Vss	0V	Power supply for ground
2	V_{DD}	+3.3V	Power supply for logic
3	V0		Operating voltage for LCD
4	RS	H/L	L : Instruction code H : Data
5	R/W	H/L	L : Write H : Read
6	E	H,H >L	Enable signal Read data when E is high Write data at falling edge of E
7	DB0	H/L	In 8-bit bus mode, used as low order bidirectional data bus. In 4-bit bus mode, open these pins
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	In 8-bit bus mode, used as high order bidirectional data bus. In 4-bit bus mode, used as both high and low order data bus.
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	LEDA	+5V	Power supply for LED backlight
16	LEDK	0V	

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS(TA=25℃)

item	Symbol	Typ.	Max.	Unit
Forward Voltage	Vf	4.2	4.3	V
Forward Current	If	120	--	mA
LED Color	Yellow green			