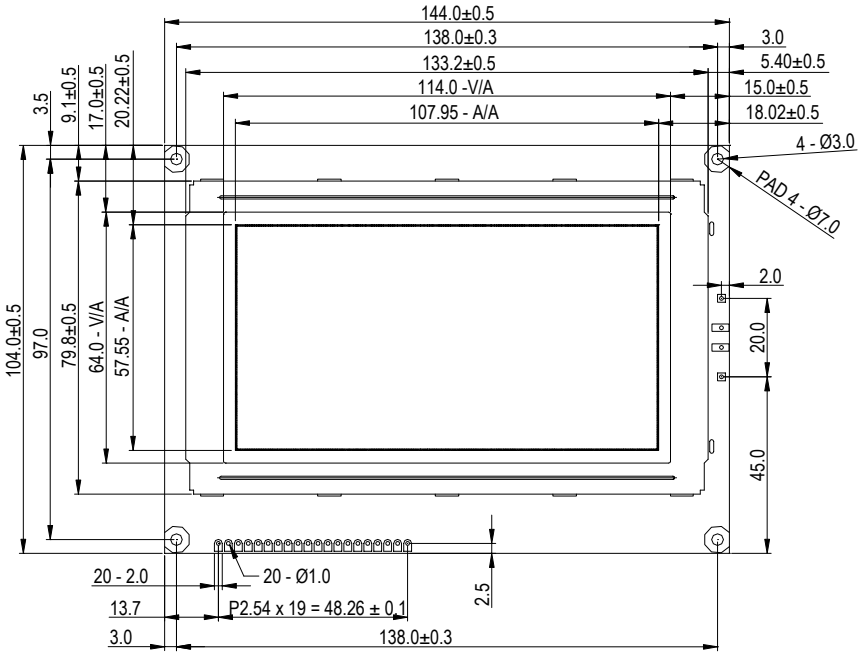
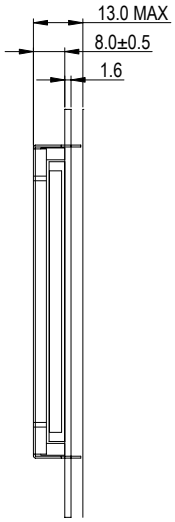
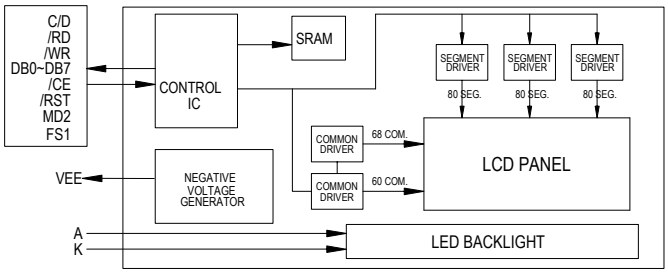
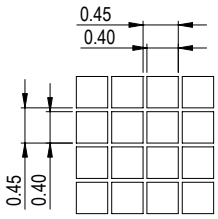
STANDARD GRAPHICS MODULES

G128240x05..... OUTLINE DIMENSION AND BLOCK DIAGRAM









The tolerance unless classified ±0.3 mm

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	VSS	Ground Terminal
2	VDD	Supply Terminal
3	V0	Power Supply for LCD Driver
4	C/D	H : Instruction, L : Data
5	/RD	Data Read
6	/WR	Data Write
7	DB0	Data Bus Line
8	DB1	Data Bus Line
9	DB2	Data Bus Line
10	DB3	Data Bus Line
11	DB4	Data Bus Line
12	DB5	Data Bus Line
13	DB6	Data Bus Line
14	DB7	Data Bus Line
15	/CE	Chip Enable
16	/RST	Reset Signal
17	VEE	Negative voltage
18	MD2	Control signal
19	FS1	Font selection
20	NC	Not connected

NOTE :
1. BACKLIGHT - : SIDE LED BACKLIGHT

ABSOLUTE MAXIMUM RATING

Item		Symbol	Conditions	Min.	Max.	Unit
Power Supply Voltage		Vdd-Vss	-	-0.3	6.0	V
Input Voltage		Vin	-	-0.3	Vdd+0.3	V
NORMAL	OPERATING TEMPERATURE	Topr	Normal	0	+50	°C
	STORAGE TEMPERATURE	Tstg	Normal	-20	+70	°C
WIDE	OPERATING TEMPERATURE	Topr	Normal	-20	+70	°C
	STORAGE TEMPERATURE	Tstg	Normal	-30	+80	°C

ELECTRICAL CHARACTERISTIC (Vdd = + 5v, Ta = 25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Logic Supply Voltage	Vdd	-	4.5	5.0	5.5	V
"H" Input Voltage	V_{IH}	-	0.8VDD	-	-	V
"L" Input Voltage	V_{IL}	-	-	-	0.3VDD	V
"H" Output Voltage	V_{OH}	-	-	-	-	V
"L" Output Voltage	V_{OL}	-	-	-	-	V
Module Supply Current	Idd	-	13.0	16.5	19.0	mA
LCD Driving Voltage	V_{LCD}	Vdd-Vo	16.6	17.5	18.4	V

BACKLIGHT OPTION

LED COLOR	OPTION	CONDITION	FORWARD CURRENT (mA)			
			MIN	TYP	MAX	
YELLOW GREEN	YES	V_{led} = 4.5V R_{led} = 0 ohm	-	180	220	
WHITE	YES	V_{led} = 5.0V R_{led} = 10 ohm	-	120	-	
BLUE	NO	-	-	-	-	
AMBER	NO	-	-	-	-	
RED	NO	-	-	-	-	

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