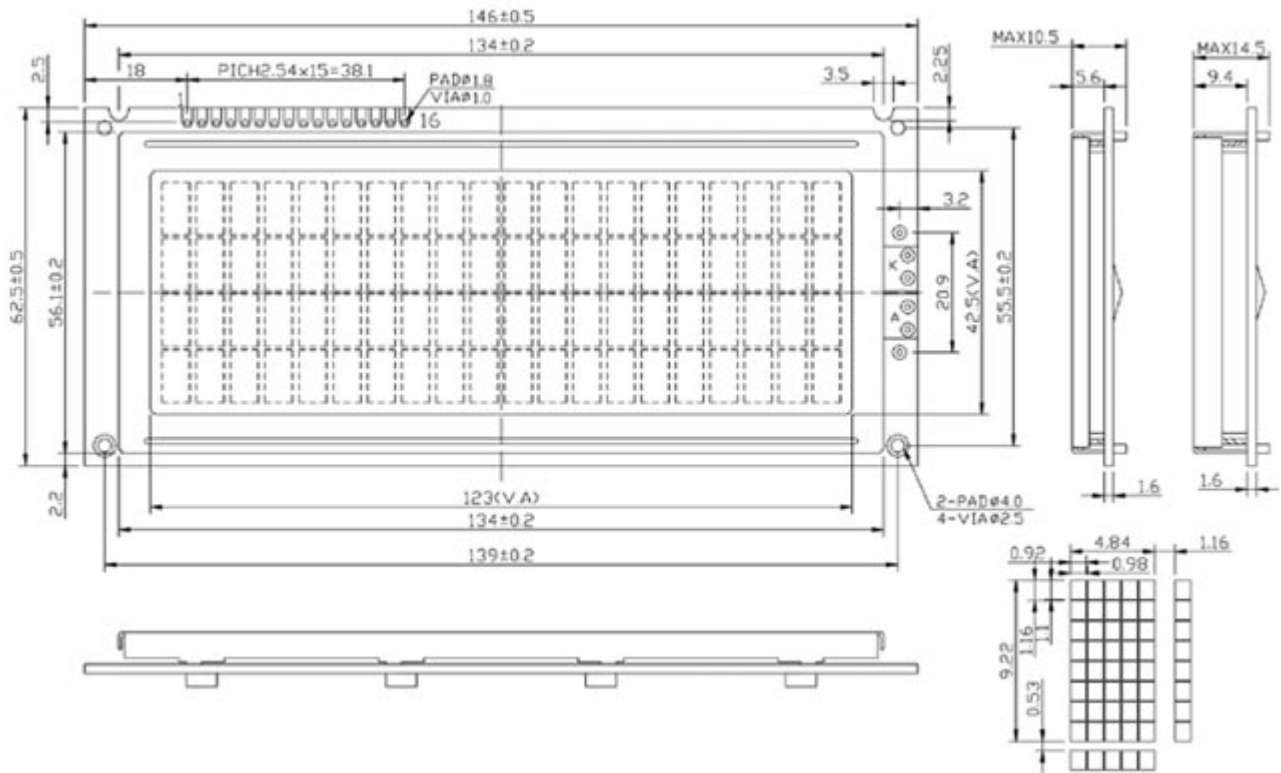


# GDM2004E2



Unit:mm

## FEATURE

1. 5X8 dots with cursor
2. Built in controller(S6A0069 or equivalent)
3. +5V Power supply(Also available for+3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin1,pin2 or pin15,pin16 or A ,K
6. N.V.optional

## INTERFACE PIN CONNECTIONS

PIN NO.	SYMBOL	FUNCTION
1	VSS	Power supply
2	VDD	
3	V0	Contrast adjustment
4	RS	H/L Register select signal
5	R/W	H/L Read/Write signal
6	E	H/L Enable signal
7	DB0	H/L Data bus for 4 bit or 8 bit mode
8	DB1	
9	DB2	
10	DB3	
11	DB4	
12	DB5	
13	DB6	
14	DB7	
15	LED+	+4.2V for BKL
16	LED-	Power supply for BKL (0V)

## MECHANICAL DATA

ITEM	STANDARD	UNIT
Module dimension	146.0×62.5	mm
Viewing area	123.0×42.5	mm
Dot size	0.92×1.06	mm
Character size	4.84×9.22	mm

## MAXIMUM RATING

ITEM	SYMBOL	STANDARD			UNIT
		MIN.	TYP.	MAX.	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	Vi	-0.3	---	VDD+0.3	

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD			UNIT
			MIN.	TYP.	MAX.	
Input voltage	VDD	-	4.5	5.0	5.5	V
		-	2.7	3.0	3.3	
Supply current	IDD	VDD=5.0	-	1.5	3.5	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-	-	-	V
		0°C	4.7	4.7	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
LEDBKL voltage	VF	25°C	-	4.2	4.6	
LEDBKL current	IF	VF=4.2V	-	500	-	mA

## DISPLAY CHARACTER ADDRESS CODE

DISPLAY POSITON	1	---	16	17	18	19	20
DDRAM address	00	---	0F	10	11	12	13
DDRAM address	40	---	4F	50	51	52	53
DDRAM address	14	---	23	24	25	26	27
DDRAM address	54	---	63	64	65	66	67