

LCD/Graphic Type

GMF32024ABLW



● Products Specifications

Items	Value	Unit
Number of Dots	320 x 240 dots	-
Dimensions	W150.0xD96.0xH14.0	mm
Effective Display Area	W103.0xD79.0	mm
Dot Size	W0.27xD0.27	mm
Dot Pitch	W0.3xD0.3	mm
LCD Mode	STN-Blue	-
Viewing Angle	6:00	-
Duty Ratio	1/240	duty
Backlight	L E D (White)	-
Weight	approx. 190	g
Data Transfer Method	4 bit parallel	-
Recommended to Controller		-



* RoHS compliant

● Absolute Maximum Ratings

Items	Symbol	Value	Unit	Conditions
Supply Voltage for Logic	$V_{DD}-V_{SS}$	0 ~ +7.0	V	
Supply Voltage for LCD Drive	$V_{DD}-V_{EE}$	0 ~ +35.0	V	
LCD Driving Voltage	$V_{DD}-V_{\phi}$	0 ~ +26.0	V	$V_{EE} \leq V_{\phi}$
Input Voltage for Logic	V_i	$V_{SS} \sim V_{DD}+0.3$	V	
Operating Temperature	T_{opr}	0 ~ +50	°C	
Storage Temperature	T_{stg}	-20 ~ +70	°C	
CCFL Circuit Voltage /Tube Current	V_s/I_L		Vrms/mArms	
LED Supply Voltage	V_{LED}	+5.3	V	$T_a=0^{\circ}\text{C} \sim 50^{\circ}\text{C}$

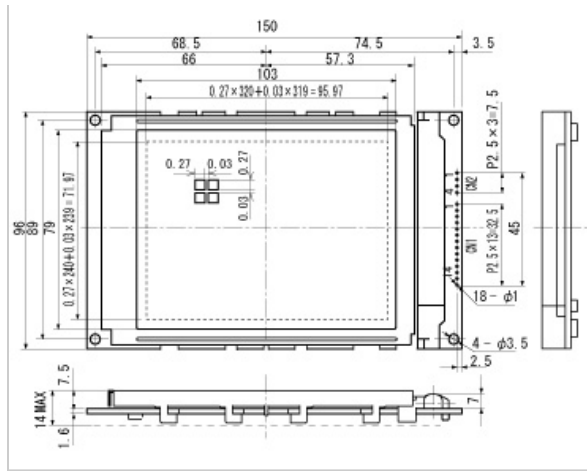
● Electrical Characteristics

Items	Symbol	Value			Unit	Conditions
		MIN.	TYP.	MAX.		
Supply Voltage for Logic	$V_{DD}-V_{SS}$	+4.5	+5.0	+5.5	V	
Supply Voltage for LCD Drive	$V_{DD}-V_{EE}$	-	29	-	V	
LCD Driving Voltage	$V_{DD}-V_{\phi}$	-	+23.3	-	V	$V_{EE} \leq V_{\phi}$
Input "High" level Voltage	V_{IH}	$0.8 V_{DD}$	-	V_{DD}	V	
Input "Low" level Voltage	V_{IL}	V_{SS}	-	$0.2 V_{DD}$	V	
Latch Pulse Frequency	f_{DLT}	14.4	18.0	21.6	kHz	
CCFL Tube Voltage /Tube Current	V_L/I_L				Vrms/mArms	
LED Supply Voltage	V_{LED}		5.0		V	$T_a=0^{\circ}\text{C} \sim 50^{\circ}\text{C}$

● External Dimensions

Unit:mm

● Pin Function



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CN-1 (LCD/液晶駆動用端子) ^{※1}

Pin No. ピン番号	Symbol 記号	Signal 信号レベル
1	FLB	H / L
2	NC	—
3	OL1	H-L
4	OL2	H-L
5	D-OFF	H / L ※2
6	DO	H / L
7	D1	H / L
8	D2	H / L
9	D3	H / L
10	VDD	—
11	VSS	—
12	VEE	—
13	FS	— ※3
14	FG	— ※4

- ※1 : Gold-plated through-hole
金メッキスルーホールのみ
- ※2 : D-OFF is pulled up VDD through 10kΩ
in the module.
D-OFFはVDDにプルアップされています。
抵抗値10kΩ
- ※3 : Connect the voltage divider.
(See the power supply example.)
分圧回路を接続してください。(電源供給例参照)
- ※4 : FG terminal shall be connected to
metal vessel.
FG端子は、メタルフレーム及び取り付け穴の
PCBパターンに接続されています。

CN-2 (Backlight/バック照明用端子) ^{※5}

Pin No. ピン番号	Symbol 記号
1	LED-A
4	LED-B

- ※5 : Gold-plated through-hole
金メッキスルーホールのみ
- ※6 : Not connected to the pin number 2 and 3.
2, 3番ピンは未接続です。

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