DG series

DG-12128 128 x 128 Dots

■Mechanical Data

Item	Standard Value	Unit
Module Size	72.4(W) x 69.9(H) x 10.0(T)	mm
Viewing Area	49.0(W) x 49.0(H)	mm
Dot Pixels	128 x 128	dots
Dot Size	0.32 x 0.32	mm
Dot Pitch	0.35 x 0.35	mm

■Absolute Maximum Ratings

Item	Symbol	Standard Value			Unit
		Min.	Typ.	Max.	
Supply Voltage for Logic	V_{DD}-V_{SS}	0	--	7.0	V
Supply Voltage for LCD Drive	V_{DD}-V_{EE}	0	--	26.0	V
Input Voltage	V_I	V_{SS}	--	V_{DD}	V
Operation Temperature	Topr	0	--	50	°C
Storage Temperature	Tstg	-20	--	70	°C

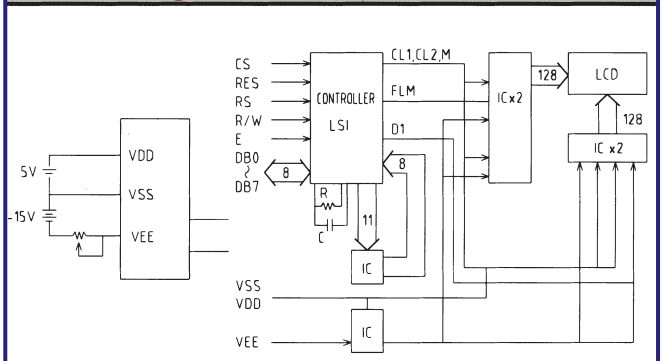
■Electrical Characteristics

Item	Symbol	Condition	Standard Value	Unit
			Min.	
LCD Supply Voltage	V_{DD}	--	4.75 ⇨ 5.25	V
	V_{EE}	--	-10	V
High Level Input Voltage	V_{IH}	V_{DD}=5+ 0.25V	(0.7 ⇨ 1.0) x V_{DD}	V
Low Level Input Voltage	V_{IL}	V_{DD}=5+ 0.25V	(0 ⇨ 0.3) x V_{DD}	V
High Level Output Voltage	V_{OH}	V_{DD}=5+ 0.25V	2.4 ⇨ V_{DD}	V
Low Level Output Voltage	V_{OL}	V_{DD} =5+0.25V	0 ⇨ 0.4	V
	I_{DD}	V_{DD}=5V	20.0 Max.	mA
Current Consumption	I_{EE}	V_0=-10V	10.0Max.	mA

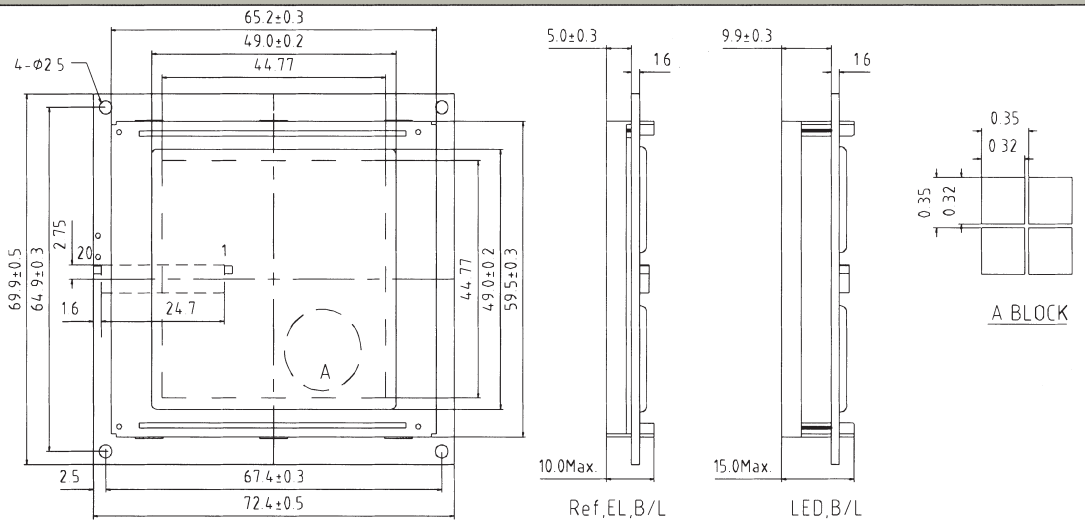
■Pin Assignment

No.	Symbol	Level	Function
1~8	DB0~DB7	H/L	Data Bus Line
9	RS	H/L	H: Instruction , L: Data
10	R/W	H/L	H: Data Read L: Data Write
11	E	H/L	Enable
12	CS	L	Chip Enable Active L
13	RES	L	Reset Active L
14	V_{EE}	--	Negative Voltage Output(-10V)
15	V_{DD}	--	Power Supply for Logic Circuit
16	V_{SS}	--	Ground
17.18	NC	--	No Connection
19	LEDA	--	LED or EL Backlight
20	LEDK	--	LED or EL Backlight

■Block Diagram



■External Dimensions



■Option

LCD Type								Backlight Type				Built-in Control LSI
S1	S2	W	N	R	F	M	H	EL	LED	CCFL	Touch Panel	
•	•	•		•	•			•	•			LC7981