



* FOR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FOR EL OR NO BACKLIGHT
 T1=11.0MAX T2=6.0±0.3

NT-G128643A

128 X 64 DOTS GRAPHIC LCM



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	03/05/18	A CH	NEW RELEASE

PINS ASSIGNMENT			
NO.	SYMBOL	DESCRIPTION	
1	VSS	GROUND	
2	VDD	POWER SUPPLY FOR LOGIC AND LCD	
3	V0	OPERATING VOLTAGE FOR LCD	
4	RS	DATA/INSTRUCTION SELECT	
5	R/W	READ/WRITE SELECT	
6	E	ENABLE SIGNAL	
7-14	DB0--DB7	DATA BUS	
15	CS1	CHIP SELECT OF IC1 (HIGH EFFECTIVE)	
16	CS2	CHIP SELECT OF IC2 (HIGH EFFECTIVE)	
17	/RST	RESET SIGNAL(LOW EFFECTIVE)	
18	VEE	ON CHIP DC/DC OUTPUT(-10V)	
19	A	POWER SUPPLY FOR LED BACKLIGHT(+)	
20	K	POWER SUPPLY FOR LED BACKLIGHT(-)	

ABSOLUTE MAXIMUM RATING			
ITEM	SYMBOL	MIN	MAX
POWER SUPPLY(LOGIC)	VDD-VSS	0	6.5
POWER SUPPLY(LCD DRV.)	VDD-V0	0	18.0
INPUT VOLTAGE	VI	VI	VDD

ELECTRICAL CHARACTERISTICS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V
SUPPLY CURRENT	IDD	-	5.1	9.8	mA
LED OPERATING VOLTAGE	VDD-V0	-	11.6	-	V
LED OPERATING CURRENT	I25C	-	11.5	-	mA
LED OPERATING VOLTAGE	VDD-V0	-	11.4	-	V
INPUT VOLTAGE	VI	0	0.7VDD	-	V
INPUT VOLTAGE	VIL	0	0	0.3VDD	V

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	113.0W x 65.0H x 13.0(T/0.0)T	MM
VIEWING AREA	73.5W x 39.0H	MM
DOT NUMBER	128 x 64	DOTS
DOT SIZE	0.48W x 0.48H	MM
DOT PITCH	0.52W x 0.52H	MM

OPTIONS	
1. LCD TYPE:	Y/G STN; GRAY STN; B/W FSTN
2. BACKLIGHT:	WITHOUT BACKLIGHT; LED; EL
3. COLOR OF BACKLIGHT:	Y/G; BLUE; WHITE
4. TEMPERATURE RANGE:	NORMAL(0--50C); EXTENDED(-20--70C)
5. POWER SUPPLY:	ON BOARD DC/DC(SINGLE 3.0V); DUAL POWER SUPPLY(5.0V & -5.0V)
6. VIEWING ANGLE:	6H; 12H

ALL DIMENSIONS ARE IN MM. TOLERANCE IS +/-0.2 UNLESS OTHERWISE NOTED.

