



* FOR LED BACKLIGHT
 TH1=14.0MAX TH2=9.0MAX
 * FOR EL OR NO BACKLIGHT
 TH1=11.0MAX TH2=6.0MAX

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	01/06/18	A.C.H	NEW RELEASE

PINS ASSIGNMENT			
NO.	SYMBOL	DESCRIPTION	
1	FG	FRAME GROUND	
2	VSS	GROUND	
3	VDD	POWER SUPPLY FOR LOGIC AND LCD	
4	V0	OPERATING VOLTAGE FOR LCD	
5	WR	DATA WRITE	
6	R/D	DATA READ	
7	/CE	CHIP ENABLE FOR T6963C	
8	/CD	COMMAND/DATA SELECTION	
9	/RST	RESET T6963C (LOW EFFECTIVE)	
10-17	DB0-DB7	DATA BUS	
18	FS	FONT SELECTION (L:8X8 H:8X8)	
19	LEDA	POWER SUPPLY FOR LED BACKLIGHT (+)	
20	VEE	ON CHIP DC/DC OUTPUT (-10V)	

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

ELECTRICAL CHARACTERISTICS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V
SUPPLY CURRENT	IDD	-	12.0	-	mA
LCD OPERATING	VDD-V0	-	16.0	-	V
VOLTAGE	V0	-	15.0	-	V
INPUT VOLTAGE	V _I	H: VIH	0.7VDD	-	V
		L: VIL	0	-	0.3VDD

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	144.0W X 104.0H X 14.0T(11.0T)	MM
VIEWING ANGLE	133.2W X 64.0H	MM
DOT NUMBER	240 X 128	DOTS
DOT SIZE	0.40W X 0.40H	MM
DOT PITCH	0.45W X 0.45H	MM

OPTIONS	
1. LCD TYPE:	YG:STN, GRAY:STN, BW:FS:TN
2. BACKLIGHT:	WITHOUT BACKLIGHT, LED, EL, CCFL
3. COLOR OF BACKLIGHT:	Y/G, BLUE, WHITE
4. TEMPERATURE RANGE:	NORMAL(0-50C)
5. POWER SUPPLY:	ON BOARD DC/DC(SINGLE 5.0V), DUAL POWER SUPPLY(5.0V & -10.0V)
6. VIEWING ANGLE:	6H: 12H

NT-G2401281A

240 X 128 DOTS GRAPHIC LCM



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

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

