

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	01/06/18	A.CH	NEW RELEASE

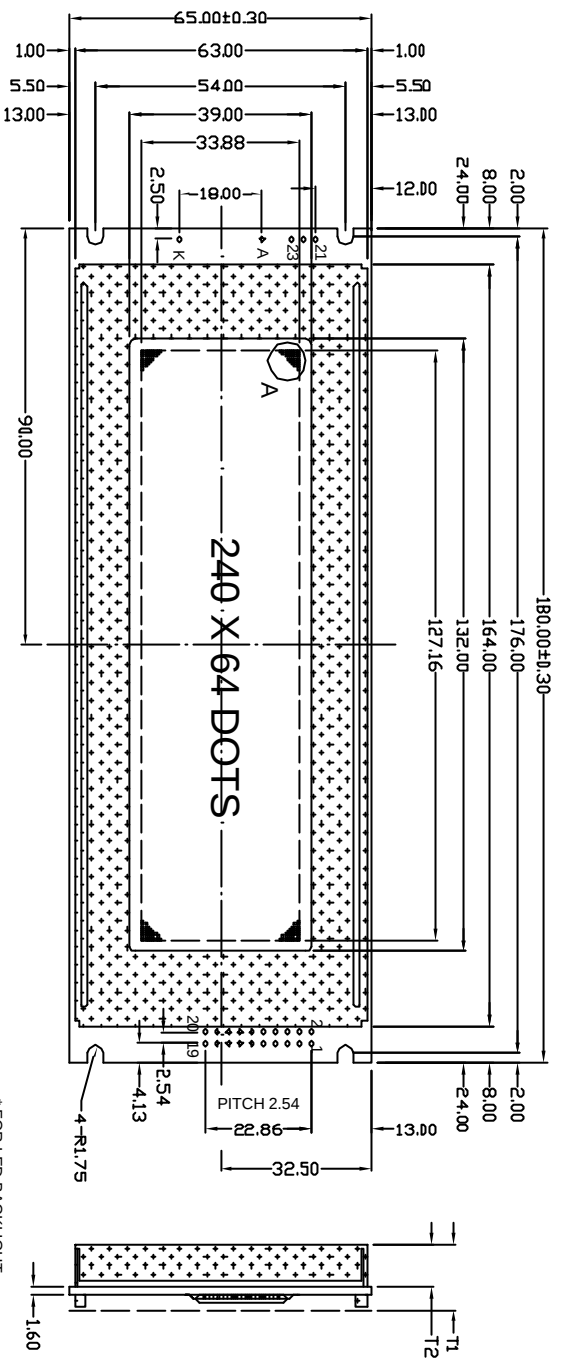
PINS ASSIGNMENT	
NO.	SYSBOL DESCRIPTION
1	FG FRAME GROUND
2	VSS GROUND
3	VDD POWER SUPPLY FOR LOGIC AND LCD
4	V0 OPERATING VOLTAGE FOR LCD
5	/MR DATA WRITE
6	/RD DATA READ
7	/CE CHIP ENABLE FOR T6963C
8	/CD COMMAND DATA SELECTION
9	NC NO CONNECT
10	/RST RESET T6963C (LOW EFFECTIVE)
11-18	DB0-DB7 DATA BUS
19	/FS POINT SELECTION (L:8X8, H:8X8)
20	VEE ON CHIP DC/DC OUTPUT (-1.0V)
21	A LED POWER SUPPLY (+)
22	NC NO CONNECTION
23	K LED POWER SUPPLY (-)

ABSOLUTE MAXIMUM RATING			
ITEM	SYMBOL	MIN	MAX UNIT
POWER SUPPLY VOLTAGE	VDD-VSS	0	6.5 V
POWER SUPPLY VOLTAGE	VDD-V0	0	18.0 V
INPUT VOLTAGE	VI	VI	VDD V

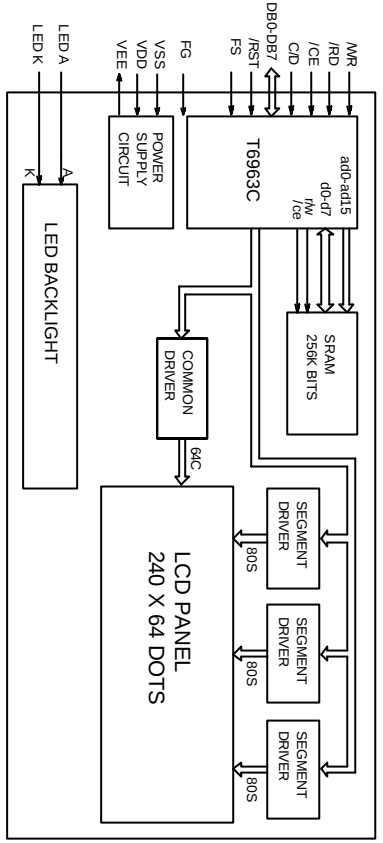
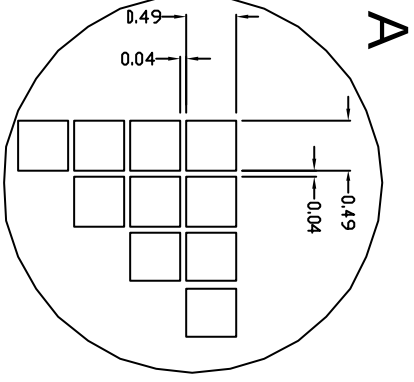
ELECTRICAL CHARACTERISTICS				
ITEM	SYMBOL	MIN	TYP	MAX UNIT
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25 V
SUPPLY CURRENT	IDD	-	8.7	- mA
LCD OPERATING VOLTAGE	V0	-	12.5	- V
	V0	-	11.5	- V
	V0	-	10.5	- V
INPUT VOLTAGE	VI	0.7VDD	-	VDD V
	VIL	0	0.3VDD	V

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	180.0W x 65.0H x 14.0T (11.0T)	MM
VIEWING AREA	132.0W x 38.0H	MM
DOT NUMBER	240 x 64	DOTS
DOT SIZE	0.49W x 0.49H	MM
DOT PITCH	0.53W x 0.53H	MM

OPTIONS	
1. LCD TYPE:	YIG STN. GRAY STN. BW FSTN
2. BACKLIGHT:	WITHOUT BACKLIGHT: LED: EL
3. COLOR OF BACKLIGHT:	YIG: BLUE: WHITE
4. TEMPERATURE RANGE:	NORMAL: 0~50C; EXTENDED: 0~70C
5. POWER SUPPLY:	ON BOARD DC/DC (SINGLE 5.0V); DUAL POWER SUPPLY (5.0V & -10.0V)
6. VIEWING ANGLE:	6H, 12H



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



NT-G240641A

240 X 64 DOTS GRAPHIC LCM



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

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