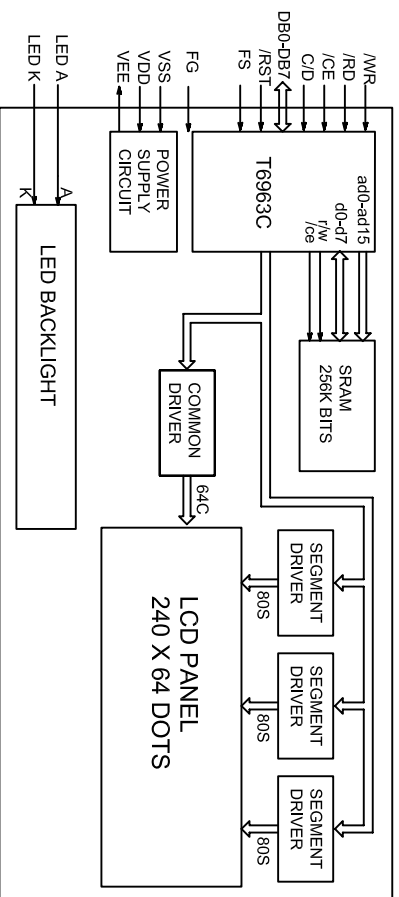
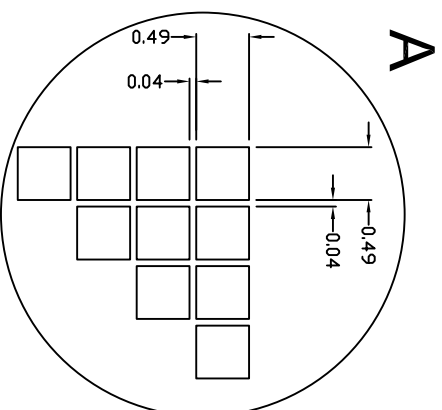


240 X 64 DOTS GRAPHIC LCM



ALL DIMENSIONS ARE IN MM. TOLERANCE IS ± 0.2 .
UNLESS OTHERWISE NOTED.



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	/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	FONT SELECTION (L:8x8, H:8x8)
20	V/E	ON CHIP DC/DC OUTPUT (-10V)
21	A	LED POWER SUPPLY(+)
22	NC	NO CONNECTION
23	K	LED POWER SUPPLY(-)

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	VI	VI	VDD V

ELECTRICAL CHARACTERISTICS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC SUPPLY CURRENT	VDD-VSS	4.75	5.0	5.25	V
LOD OPERATING VOLTAGE	IDD	-	8.7	-	mA
	10C	-	12.5	-	V
	25C	-	11.5	-	V
	40C	-	10.5	-	V
INPUT VOLTAGE	VH	0.7VDD	-	VDD	V
	VIL	0	-	0.3VDD	V

MECHANICAL SPECIFICATIONS	
ITEM	SPECIFICATION
OVERALL SIZE	180.0W x 65.0H x 14.0T(11.0T)
VIEWING AREA	132.0W x 39.0H
DOT NUMBER	240 x 64
DOT SIZE	0.49W x 0.49H
DOT PITCH	0.53W x 0.53H

OPTIONS
1. LCD TYPE: Y/G STN. GRAY STN. BW FSTN
2. BACKLIGHT: WITHOUT BACKLIGHT. LEQ. 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 5.0V); DUAL POWER SUPPLY(5.0V & -10.0V)
6. VIEWING ANGLE: 6H: 12H