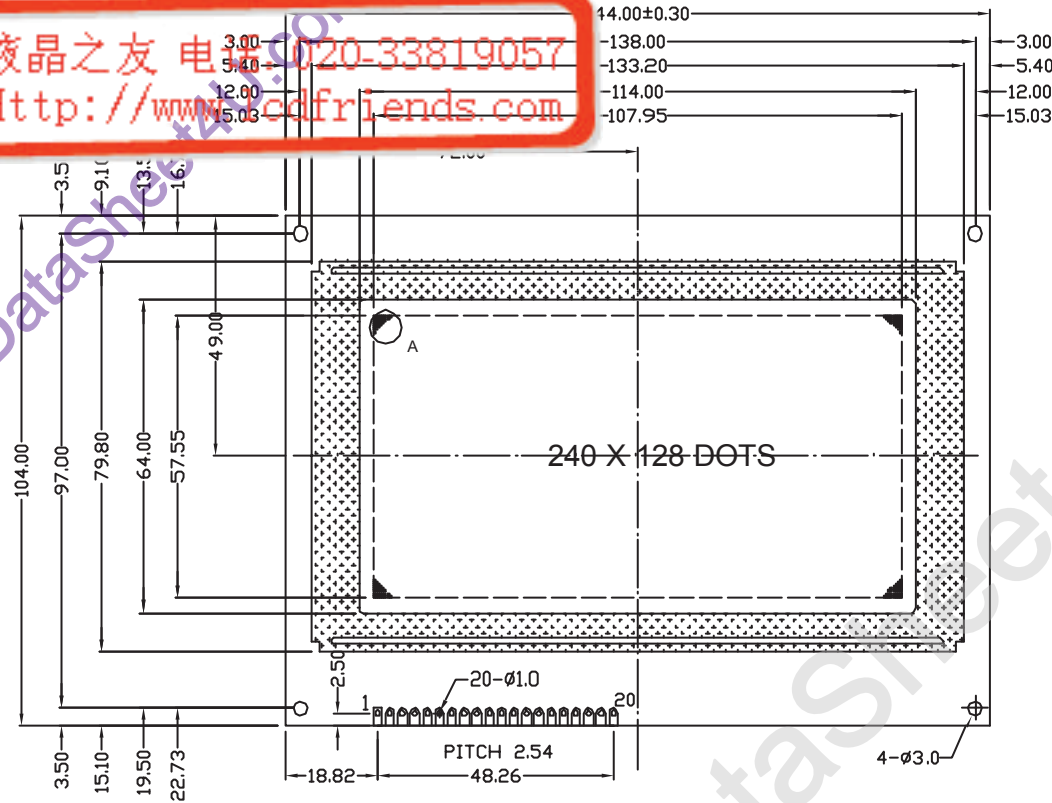
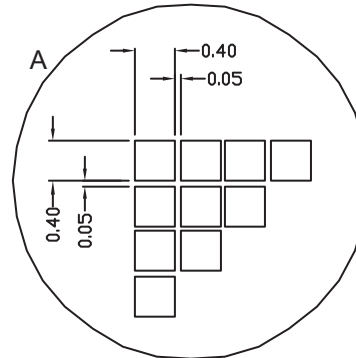
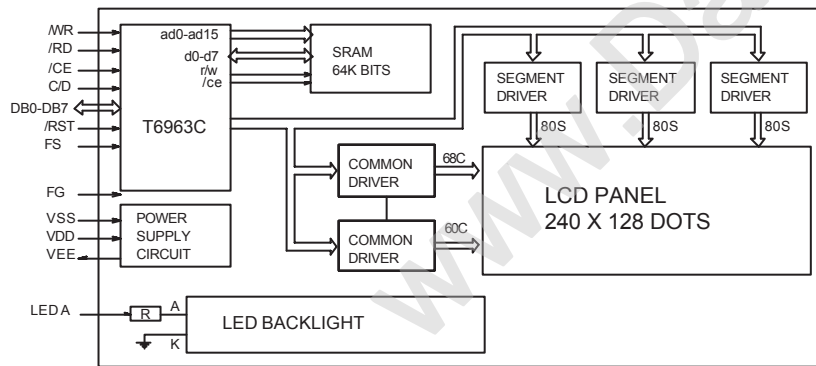


液晶之友 电话: 020-33819057
 Http://www.lcdfriends.com



* 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.CH	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	/RD	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:6X8)
19	LED A	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	I _{DD}	-	12.0	-	mA	
LCD OPERATING VOLTAGE	VDD-V0	OC	-	16.0	-	V
		25C	-	15.0	-	V
		40C	-	14.0	-	V
INPUT VOLTAGE	H	V _{IH}	0.7VDD	-	VDD	V
	L	V _{IL}	0	-	0.3VDD	V

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	144.0W x 104.0H x 14.0T(11.0T)	MM
VIEWING ANGLE	133.2Wx64.0H	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: Y/G STN; GRAY STN; B/W FSTN
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