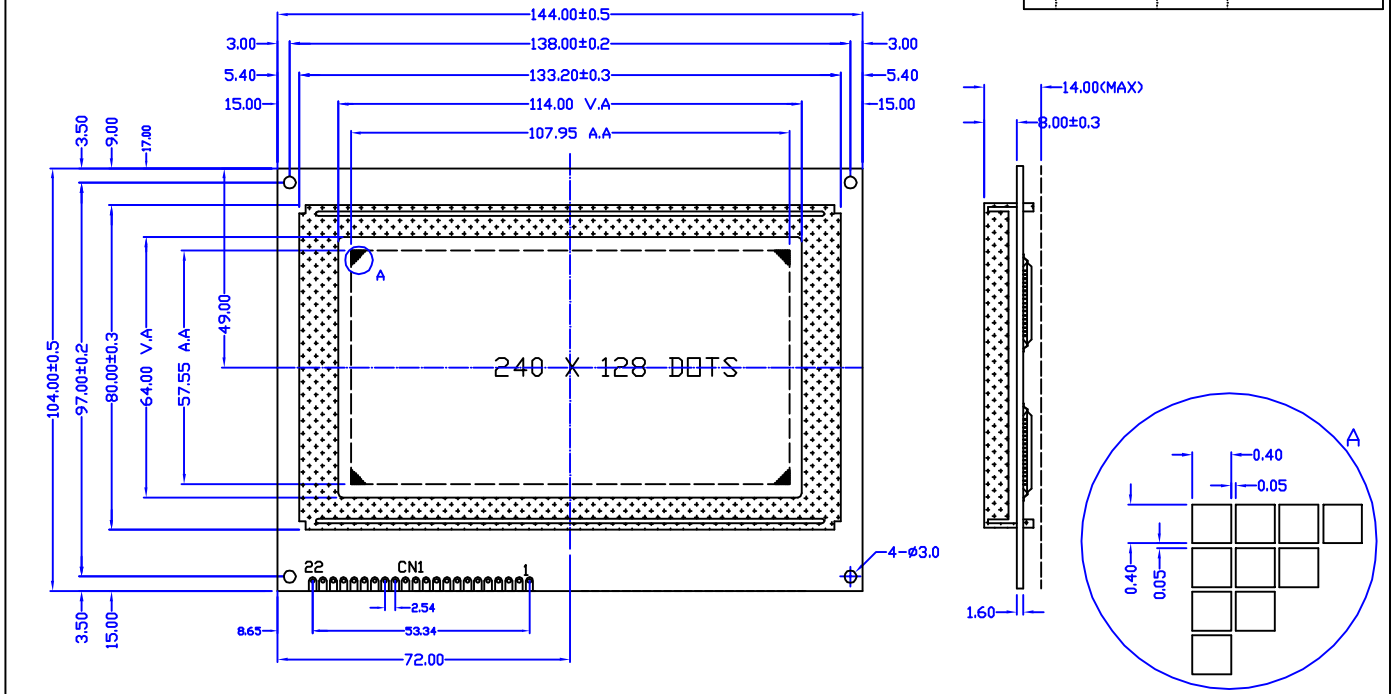


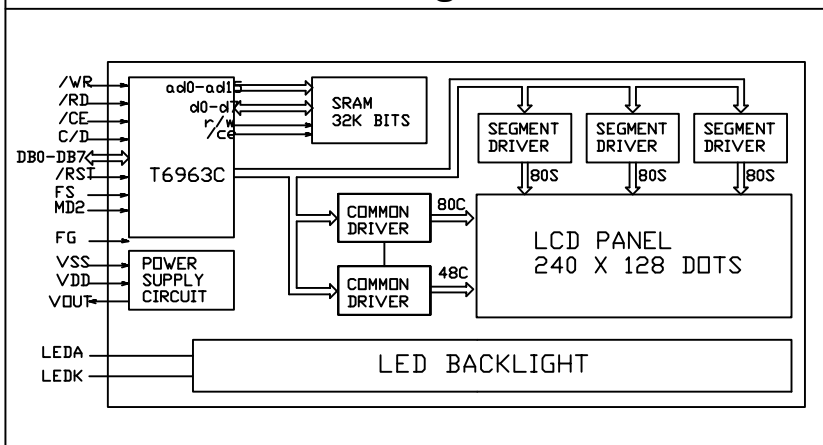
CUSTOMER'S APPROVED:

DATE:

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	06/06/18	Qing	NEW RELEASE



Block Diagram



Feature

- BUILT IN CONTROLLER: T6963C OR EQUIVALENT
- POWER SUPPLY: 5.0V
- LCD TYPE: BLUE STN, TRANSMISSIVE
- BACKLIGHT: LED SIDE BACKLIGHT
- COLOUR OF BACKLIGHT: WHITE
- 1/128 DUTY CYCLE, 1/12 BIAS
- VIEWING ANGLE: 6 O'CLOCK
- TEMPERATURE RANGE: EXTENDED (-20--70)
- LOW CONSUMPTION, LOW VOLTAGE, HIGH CONTRAST

Mechanical Data

ITEM	SPECIFICATION	UNIT
OVERALL SIZE	144.0W x 104.0H x 14.0T	MM
VIEWING AREA	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

Pin Assignment

NO.	SYMBOL	DESCRIPTION
1	VSS	GROUND
2	VDD	POWER SUPPLY FOR LOGIC AND LCD
3	V0	OPERATING VOLTAGE FOR LCD
4	C/D	COMMAND/DATA SELECTION
5	/RD	DATA READ
6	/WR	DATA WRITE
7--14	DB0--DB7	DATA BUS
15	/CE	CHIP ENABLE FOR T6963C
16	/RST	RESET T6963C (LOW EFFECTIVE)
17	VOUT	NEGATIVE VOLTAGE INPUT/OUTPUT
18	MD2	SELECT NUMBER OF THE COLUMNS
19	FS	FONT SELECTION (L:8X8, H:6X8)
20	NC	NO CONNECTION
21	LEDA	LED BACKLIGHT POWER SUPPLY(+)
22	LEDK	LED BACKLIGHT 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	30.0	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	-	12.0	-	mA
LCD OPERATING VOLTAGE	VDD-V0	0C	-	19.0	V
		25C	-	18.5	V
		40C	-	18.0	V
INPUT VOLTAGE	H	VIH	0.7VDD	-	VDD
	L	VIL	0	-	0.3VDD

DESCRIPTION: C/D	Distar Technology Limited	
GENERAL TOL: ±0.2	www.distarltd.com	Drw WXR
DO NOT SCALE THIS DRAWING.		Chk Apv

DS-G240128C-BTSSWE-YAA