

GENERAL INFORMATION

Item	Contents	Unit
LCD type	TFT	/
Viewing direction	12:00	O' Clock
Module outline (W × H)	127.16 × 98.4	mm ²
Active area (W×H)	115.2 × 86.4	mm ²
Number of Dots	640 × RGB × 480	/
Dot size (W × H)	0.06 × 0.18	mm ²
Dot pitch (W × H)	0.18 × 0.18	mm ²
Driver IC	HX8678;HX8250	/
Backlight Type	LED	/
Interface Type	RGB/ Parallel interface	/
Input voltage	3.3	V

EXTERNAL DIMENSIONS

Customer No.:

NO.	Pin name	NO.	Pin name
1	GND	24	D25
2	NPC	25	D26
3	D00	26	D27
4	D01	27	CLK
5	D02	28	VS
6	D03	29	HS
7	D04	30	DEN
8	D05	31	SPENA
9	D06	32	SPCK
10	D07	33	SPDA
11	D10	34	RESETB
12	D11	35	UD
13	D12	36	LR
14	D13	37	VDD
15	D14	38	VDD
16	D15	39	GND
17	D16	40	X-
18	D17	41	Y-
19	D20	42	X+
20	D21	43	Y+
21	D22	44	LEDA
22	D23	45	LEDK

BLOCK DIAGRAM

NOTES:

- OPERATING TEMP: -20° C TO 70° C
- STORAGE TEMP : -30° C TO 80° C
- ROHS COMPLIANCE
- Backlight: WHITE LED VDD=3.3V
- GENERAL TOLERANCE: ±0.2
- FPC对应连接器推荐型号:FZ-0520-45-LRSL-TA-50T

CUSTOMER APPROVE		AMEND	
Mechanical	Electrical		
NO.	CONTENT	DATE	

液晶显示模块
TOLERANCE:
DECIMAL:
.x ± .30
.xx ± .20
∠ ± 1/4°

TRULY SEMICONDUCTORS LTD.		
PRODUCT NO.	DRAW NO.	REV
TFT640480-7-E	LCM0571	A
DWN 黄海昆 20080426	DSN 黄海鹏 20080426	
CHKD 尹少楠 20080426	APPD 黄英群 20080426	
NOT IN SCALE		UNIT mm
		SHEET: 1/1

■ ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit
Power supply voltage	V _{DD}	-0.3	7.0	V
Input voltage	V _{IN}	-0.3	V _{DD} +0.3	V
Operating temperature	T _{OP}	-20	70	°C
Storage temperature	T _{ST}	-30	80	°C
Humidity	RH		90%(Max60°C)	RH

■ ELECTRICAL CHARACTERISTICS

DC CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Power supply voltage	V _{DD}	2.7	3.3	3.6	V
Input Current	I _{DD}	-	145	290	mA
Input voltage 'H' level	V _{IH}	0.7V _{DD}	-	V _{DD}	V
Input voltage 'L' level	V _{IL}	0	-	0.3V _{DD}	V
Output voltage 'H' level	V _{OH}	0.7V _{DD}	-	V _{DD}	V
Output voltage 'L' level	V _{OL}	0	-	0.2 V _{DD}	V

■ TIMING OF POWER SUPPLY

PLEASE REFER TO THE DRIVER IC SPECIFICATION.

■ BACKLIGHT CHARACTERISTICS

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward voltage	V _f	21.0	22.4	23.8	V	If=60 mA
Luminance	L _v	4800	5600	6600	cd/m ²	
Number of LED	-	7 × 3			Piece	-
Connection mode	S/P	Series/Parallel			-	-

Using condition: constant current driving method If= 60 mA (+/-10%).