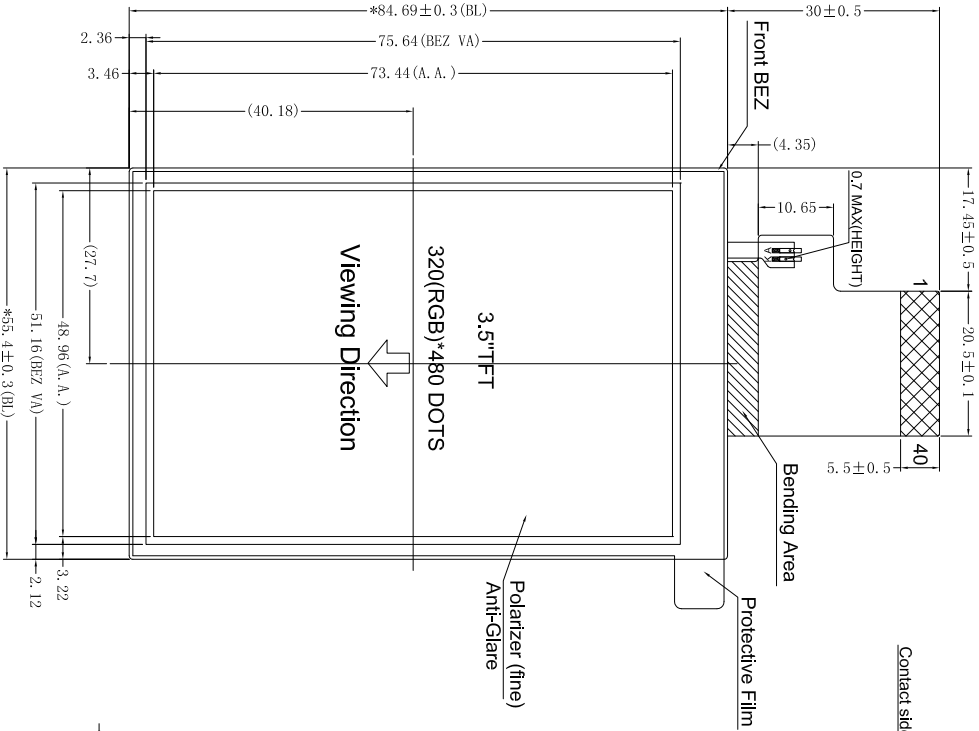




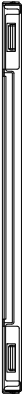
FRONT



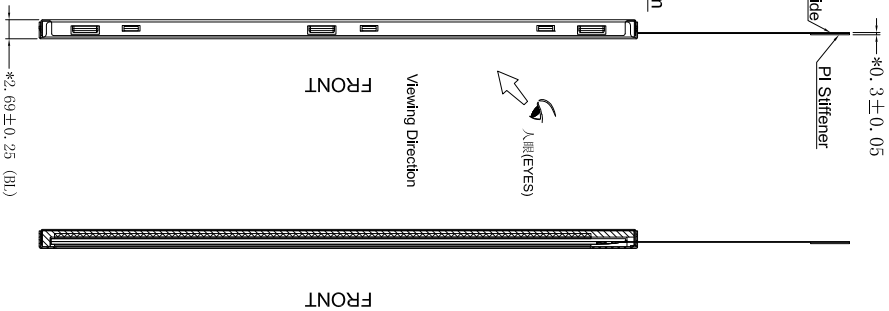
0.153	RGB
0.051	RGB
0.153	RGB

DETAIL "A"
SCALE 50:1

- Notes:
1. Tolerance is ± 0.3 mm unless otherwise noted.
2. Marked with * is important dimension.
3. Marked with () is reference dimension.



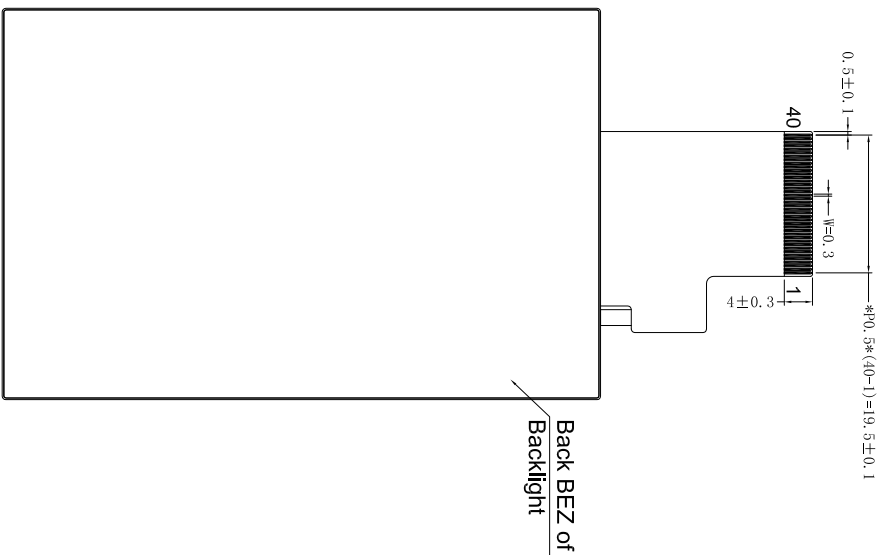
FRONT



Backlight Circuit Diagram



WHITE LED (1*4)
Driving condition: Constant Current, $I_F=20$ mA
VF: 11.0V(MIN)~12.4V(TYP)~13.8V(MAX) @ $I_F=20$ mA



No.	Part Name	Quantity
6	Protective Film	1
5	Top BEZ	1
4	Backlight(w. back BEZ)	1
3	FPC	1
2	IC	1
1	LCD	1

CUSTOMER APPROVAL:

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SHANTOU GOWORLD DISPLAY CO., LTD.

Tel:0754-88192283

Fax:0754-86339619

DRAWN:

余冰洁

2019.02.14

CHECKED:

陈秀丹

2019.02.14

APPROVED:

黄宏生

2019.02.14

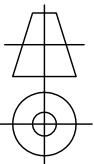
LCM NO: GWM/T15813-LCM/A

DWG NO: ED-15813-LCM/A

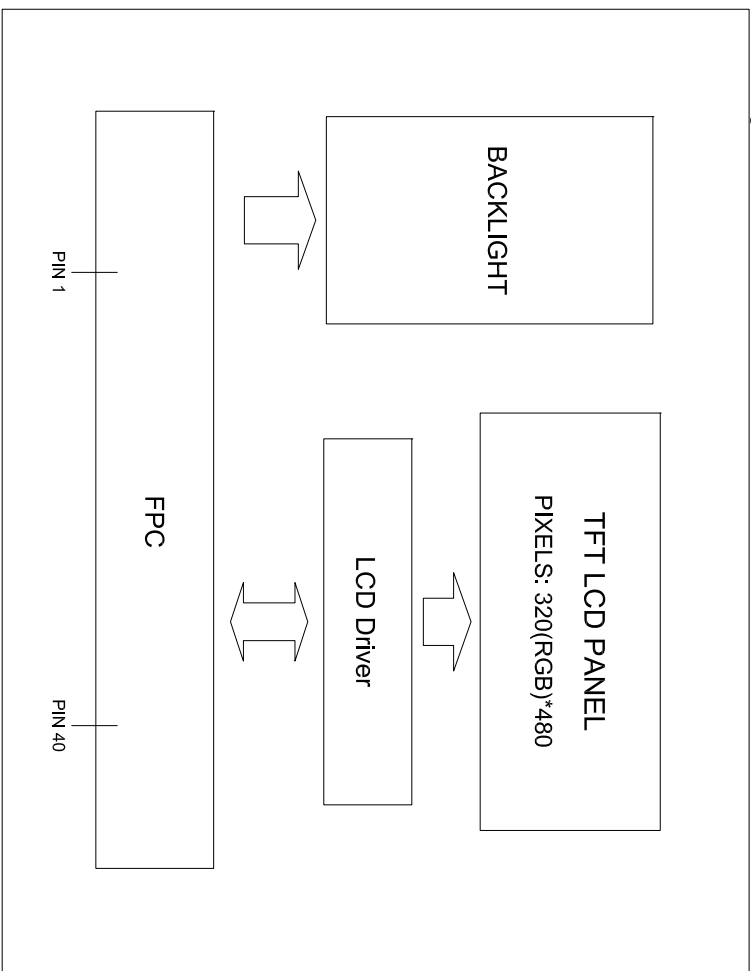
Rev: 00

UNITS: mm

SHEET 1 OF 2



Block Diagram



DISPLAY TYPE: TFT(TN) / 262K Color
 DISPLAY MODE: Transmissive / Normal White
 VIEWING DIRECTION: 12 O'clock (@ FPC on top)
 DRIVER IC: ST7796S1
 LCD SUPPLY VOLTAGE:
 VCI=2.8-3.6V, IOVCC=1.8-3.6V
 LCD INTERFACE : 3/4 line SPI + 18 bit RGB Interface
 BACKLIGHT: White LED (4 pcs in series)
 OPERATING TEMPRATURE: -20° ~ +70°C
 STORAGE TEMPRATURE: -30° ~ +80°C

NOTE:
 WITH PLEASE CHECK

LCD Interface Pin Description:

Pin	Symbol	I/O	Function Description
1	GND	P	Ground
2	VPP	P	Power supply for internal NVM, open if not used
3	EXTC	I	For programming NVM, open when normal operation
4	IM1	I	3/4 line SPI mode selection(L=3 line , H=4 line)
5	RESX	I	Reset signal, active low
6	VSYNC	I	Vertical sync signal
7	HSYNC	I	Horizontal sync signal
8	DCLK	I	Data clock
9	DE	I	Data enable signal
10	DB17	I	Data signal
11	DB16	I	Data signal
12	DB15	I	Data signal
13	DB14	I	Data signal
14	DB13	I	Data signal
15	DB12	I	Data signal
16	DB11	I	Data signal
17	DB10	I	Data signal
18	DB9	I	Data signal
19	DB8	I	Data signal
20	DB7	I	Data signal
21	DB6	I	Data signal
22	DB5	I	Data signal
23	DB4	I	Data signal
24	DB3	I	Data signal
25	DB2	I	Data signal
26	DB1	I	Data signal
27	DB0	I	Data signal
28	SDO	O	SPI Interface output signal
29	DCX	I	Data/command selection when use 4-line SPI
30	SDA	I/O	SPI Interface input signal
31	SCL	I	SPI Interface clock signal
32	CSX	I	Chip selection signal, active low
33	TE	O	Tearing effect signal output pin
34	IOVCC	P	Power supply for I/O
35	GND	P	Power ground
36	VCI	P	Power supply for analog and booster
37	GND	P	Ground
38	K	P	Power for LED backlight cathode
39	A	P	Power for LED backlight anode
40	NC	-	No connection



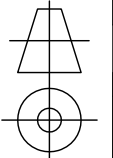
SHANTOU GOWORLD DISPLAY CO., LTD.
 Tel:0754-88192283 Fax:0754-86339619

DRAWN: 魏全宽
 2019.02.14

CHECKED: 黄宏生
 2019.02.14

APPROVED: 黄宏生
 2019.02.14

LCM NO: GWMTF15813-LCM/A
 DWG NO: ED-15813-LCM/A
 Rev: 00
 UNITS: mm
 SHEET 2 OF 2



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4000: Original Edition (with backlight, share with 15940 B/L, 14372 BEZ tooling)
 Revision History:
 -10.02.14