

1.6 inch Round TFT LCD



PROFILE

- Type: IPS TFT/Normally Black
- Display format: 400xRGBx400
- Controller IC: ST77903
- Interface: QSPI
- Input Voltage: 2.6~3.3V

FEATURES

NO.	ITEM	SPECIFICATION	UNIT
1	Panel Size	1.6	inch
2	Outline Dimension	42.94(W) x 45.89(H) x 2.11(T) (Excluding FPC)	mm
3	Active Area	Φ39.84	mm
4	Number of Pixels	400(H) × 3(RGB) × 400(V)	pixels
5	Dot pitch	0.0996(H) x 0.0996(V)	mm
6	Pixel arrangement	RGB vertical stripe	-
7	Display Mode	Normally black	-
8	Number of Colors	16.7M	-
9	Viewing Direction	ALL	-
10	Interface	QSPI	-
11	Backlight	White LED	-
12	LCM Brightness	300(Typ.)	cd/m ²
13	Contrast Ratio	1000:1(Typ.)	-
14	Drive IC	ST77903	-
15	Operation Temperature	-20~70	°C
16	Storage Temperature	-30~80	°C

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	42.94 x 45.89	mm
Active Area	Φ39.84	
Height	2.11	

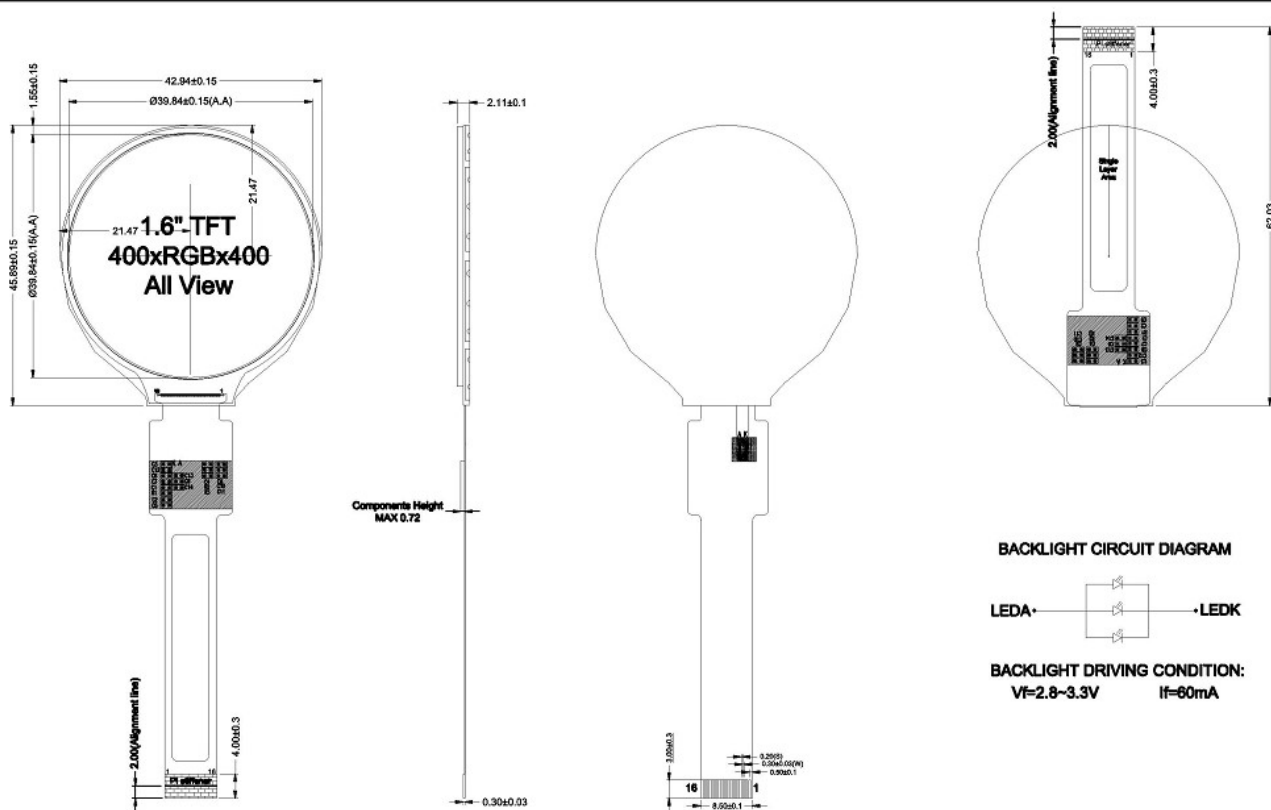
ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage(I/O)	VDD	-0.3	-	5.0	V
Analog Supply Voltage	VDDIO	-0.3	-	4.6	
Logic Input Voltage	VIN	-0.3	-	VDDIO+0.3	

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN	TYP	MAX	
System Voltage	VDD		2.6	2.8	3.3	V
Interface Operation Voltage	VDDIO		1.65	1.8	3.3	
Voltage for LED backlight	VLED		2.8	3.0	3.3	
Operating Current for VDD	IDD		-	16	-	mA
Current for LED backlight	ILED	3 LEDs	-	60	-	
Current of Sleep In Mode(VDD)	Idd		-	-	-	μA
Current of Sleep In Mode(VDDIO)	Iddio		-	-	-	

For detailed information, please refer to the “Product Numbering System” document.

PIN DESCRIPTION		
NO.	SYMBOL	FUNCTION
1	LEDK	Backlight cathode
2	LEDA	Backlight anode
3	CS	chip select signal input(low active)
4	GND	Power Ground
5	DA0	DATA
6	DA1	DATA
7	DA2	DATA
8	DA3	DATA
9	SCL	Serial input clock
10	SDA	Serial input/output data
11	RESET	Chip reset signal
12	IOVCC	Interface Operation Power Supply 1.8v-3.3V
13	VDD	System Power Supply 3.3V
14	GND	Power Ground
15	DC	Display data/command selection pin.
16	ID	ID

DIMENSIONS in millimeters



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