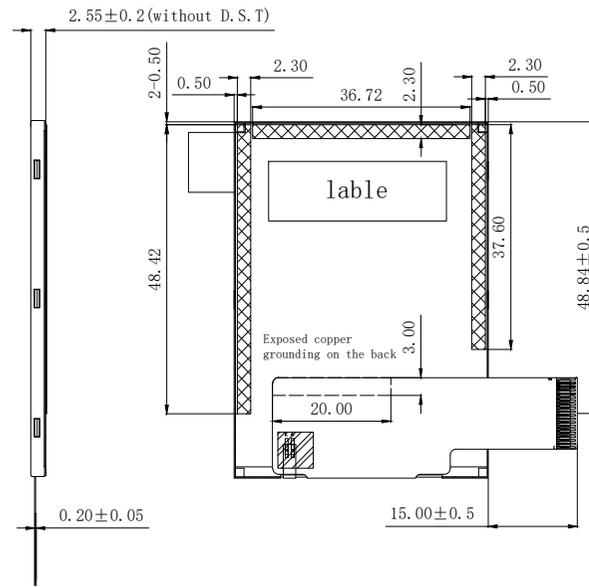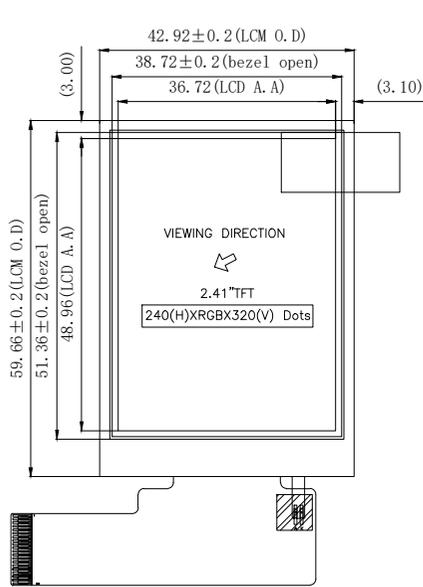LCM PIN Definition
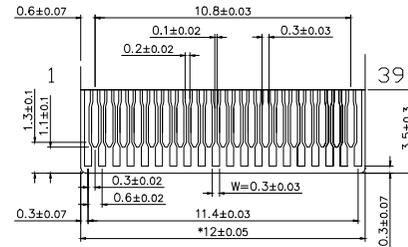
1	VSS
2	VSS
3	VCI
4	IOVCC
5	VSS
6	RESET
7	CS
8	RS/SPI_SCL
9	WR/SPI4_RS
10	SPI_SDA
11-28	DB0-DB17
29	IM0
30	IM1
31	IM2
32	RD
33-36	NC
37	TE
38	BLH/A
39	BLL/K

IM2	IM1	IM0	Interface	Data Pin
0	0	0	MCU8-bit	DB[8:0]
0	0	1	MCU16-bit	DB[15:0]
0	1	1	MCU18-BIT	DB[17:0]
1	0	1	3-line SPI	SDA:in/out
1	1	0	4-line SPI	SDA:in/out

LCD Type	2.4"TFT,Transflective, Normally white,TN
Resolution	240(RGB)*320
View Direction	2 O'CLOCK
Driver IC	ST7789V
Color Depth	65K/262K
Interface Types	SPI3/SPI4/MCU8/16/18BIT
Operating voltage	2.8V
TP/Lens	Without
Backlight LEDs	4 LEDs，40mA,6V
Surface luminance	TBD. cd/m2
Operating temperature	−20 ℃~70 ℃
Storage Temperature	−30 ℃~80 ℃
Storage Humidity	60℃ 90% max

42.92±0.2(LCM O.D)
38.72±0.2(bezel open)
36.72(LCD A.A)
(3.00)
(3.10)
59.66±0.2(LCM O.D)
51.36±0.2(bezel open)
48.96(LCD A.A)

VIEWING DIRECTION

2.41"TFT
240(H)XRGBX320(V) Dots

2.55±0.2(without D.S.T)
2±0.50
0.50
2.30
36.72
2.30
2.30
0.50
48.42
37.60
48.84±0.5
lable
Exposed copper grounding on the back
3.00
20.00
15.00±0.5
0.20±0.05
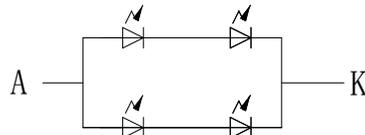
CURRENT:IF=20*2=40mA,6.0V(REF.)

A — K

Detail A
Scale 4:1

0.6±0.07
10.8±0.03
0.1±0.02
0.3±0.03
0.2±0.02
1
39
1.3±0.1
1.1±0.1
3.5±0.3
0.3±0.02
W=0.3±0.03
0.6±0.02
0.3±0.07
11.4±0.03
0.3±0.07
*12±0.05

CONNECTOR: HRS FH23-39S-0.3SHW

TSD
东莞市一众显示科技有限公司
DONG GUAN TEAM SOURCE DISPLAY TECH. CO., LTD.

版本(Version)	变更记录(Change History)	日期(Date)	视 角 (View):		比例(Proportion):	1 : 1	设 计 (DESIGN)	审 核 (AUDITING)	批 准 (APPROVED)
V1	全新设计	2018.10.27	单 位 (Unit):	M M	页 面 (Page):	1 / 1			
V2	改为SPI和MCU兼容的接口	2018.10.31	产品型号 (Product Type):		TST024QVTS-25		Aron 2018.10.31		
V3			图纸版本 (Version):		V2				