TFT DISPLAY SPECIFICATION

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RFB5700C6-AYH-MNN

General Specifications

- Size: 7.0 inch
- Dot Matrix: 1200 x RGB x 1920 (TFT) dots
- Module dimension: 112.1 x 163.75 x 2.5 mm
- Active area: 94.5 x 151.2 mm
- Pixel Pitch: 0.07875 X 0.07875 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Aspect Ratio: 10:16
- Color arrangement: RGB-STRIPE
- Driver IC: HX8279-D01*2 Cascade
- Interface: 4-Lanes MIPI
- Backlight Type: LED ,Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

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Interface

LCM PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	IOVCC	Power supply for system ,IOVCC=1.8V
3	IOVCC	
4	GND	Ground
5	RESET	Device reset signal
6	NC	No connection
7	GND	Ground
8	D0N	MIPI Negative data signal (-)
9	D0P	MIPI Positive data signal (+)
10	GND	Ground
11	D1N	MIPI Negative data signal (-)
12	D1P	MIPI Positive data signal (+)
13	GND	Ground
14	CLKN	MIPI Negative clock signal (-)
15	CLKP	MIPI Positive clock signal (+)
16	GND	Ground
17	D2N	MIPI Negative data signal (-)
18	D2P	MIPI Positive data signal (+)
19	GND	Ground
20	D3N	MIPI Negative data signal (-)
21	D3P	MIPI Positive data signal (+)
22	GND	Ground
23	NC	No connection
24	NC	No connection
25	GND	Ground
26	NC/TE	Sync signal for touch panel. Float it if not used.
27	NC	No connection
28	NC/BIST	Enable the Test Image Generation function, if connect to ground. Float it if not used.
29	NC	No connection
30	GND	Ground

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31	VLED-	LED cathode
32	VLED-	
33	NC	No connection
34	VSN	Analog supply negative voltage
35	VSN	
36	NC	No connection
37	VSP	Analog supply positive voltage
38	VSP	
39	VLED+	LED anode
40	VLED+	

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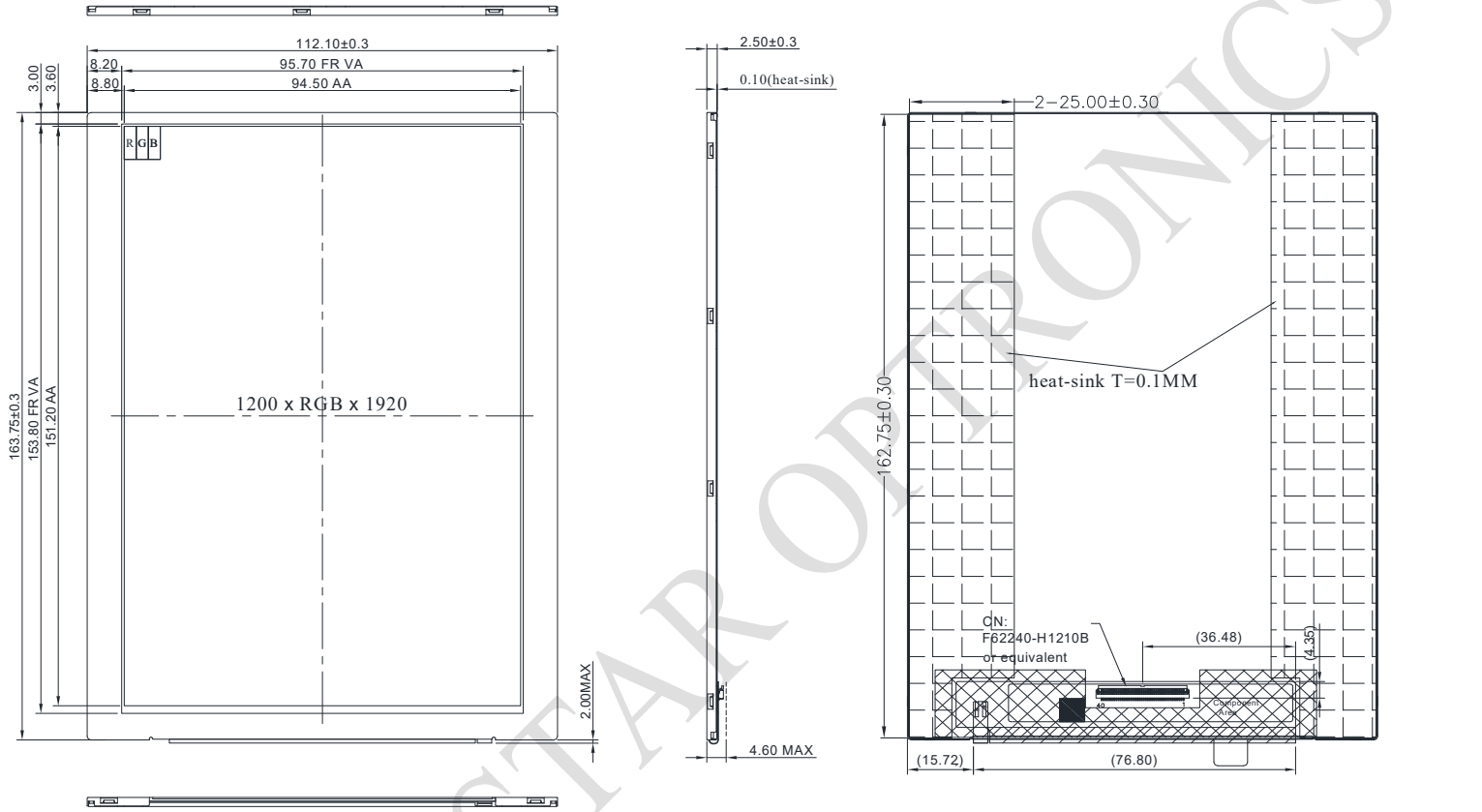
Contour Drawing



CN

PIN NO	SYMBOL
1	NC
2	IOVCC
3	IOVCC
4	GND
5	RESET
6	NC
7	GND
8	D0N
9	D0P
10	GND
11	D1N
12	D1P
13	GND
14	CLKN
15	CLKP
16	GND
17	D2N
18	D2P
19	GND
20	D3N
21	D3P
22	GND
23	NC
24	NC
25	GND
26	NC/TE
27	PWMO
28	NC/BIST
29	NC
30	GND
31	VLED-
32	VLED-
33	NC
34	VSN
35	VSN
36	NC
37	VSP
38	VSP
39	VLED+
40	VLED+

The non-specified tolerance of dimension is ±0.3 mm .

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Operating conditions:

Item		Symbol	Min	Typ	Max	Unit
Power Supply Input Voltage		IOVCC	1.7	1.8	2.0	V
		VSP	4.5	-	6.0	V
		VSN	-6	-	-4.5	V
Current Consumption	Operating	IOVCC	39.4	40.3	41.3	mA
		VSP	16.8	17.2	17.7	mA
		VSN	12.9	13.3	13.7	mA
	Sleep in	IOVCC	1.58	1.59	1.61	mA
		VSP	2.04	2.05	2.06	mA
		VSN	0.045	0.05	0.052	mA

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	520	-	mA
LED voltage	A	8.1	9.0	9.9	V
LED Life Time	-	-	50K	-	Hr

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