



RAYSTAR

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RFC35BR-AIW-DNN

SPECIFICATION

3. General Specifications

- Size: 3.5 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 76.84(W) x 63.84(H) x 3.27(D) mm
- Active area: 70.08 x 52.56 mm
- Dot pitch: 0.073 x 0.219 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Interface: 8-bit/16-bit CPU or option other mode (build in controller)
- Aspect Ratio: 4:3
- Backlight Type: LED, Normally White
- IC: SSD2119
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

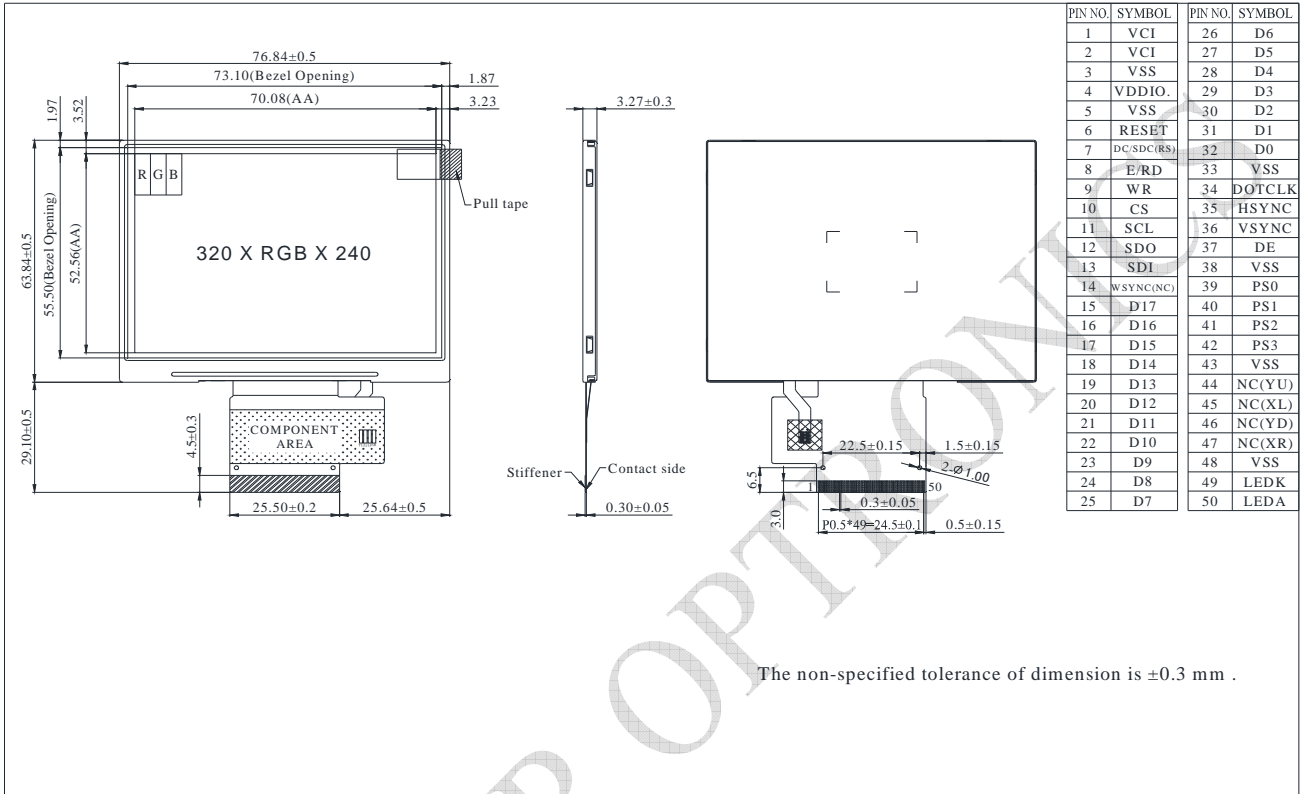
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

No.	Symbol	Description
1	VCI	Booster input voltage pin
2	VCI	Booster input voltage pin
3	VSS	Ground
4	VDDIO	Voltage input pin for logic
5	VSS	Ground
6	RESET	Reset Signal pin ("Low" is enable)
7	DC/SDC	Data or Command select PIN.
8	E/RD	6800 system: E(enable signal)
9	WR	6800 system : RW (indicates read cycle when high ,write cycle when low)
10	CS	Chip select
11	SCL	Serial Clock.
12	SD0	Serial Data output
13	SDI	Serial Data Input
14	WSYNC	Ram write synchronization output. Leave it OPEN when not used.
15~32	D17~D0	Data bus
33	VSS	Ground
34	DOTCLK	Dot-clock signal and oscillator source
35	HSYNC	Line Synchronous Signal
36	VSYNC	Frame Synchronous Signal
37	DE	Display enable pin for controller
38	VSS	Ground
39	PS0	Interface select PIN
40	PS1	
41	PS2	
42	PS3	
43	VSS	Ground
44~47	NC	NC
48	VSS	Ground
49	LEDK	Backlight LED Cathode
50	LEDA	Backlight LED Anode.

Contour Drawing



Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions

Item	Symbol	MIN	TYP	MAX	Unit
Power supply voltage	VCI	2.5	3.3	3.6	V
Power supply pin of IO pins	VDDIO	1.4	3.3	3.6	V
Current consumption	IVCI+IVDDIO	-	6	-	mA
Dot clock	DCK	-	5.5	8.2	MHz

LED driving conditions

Parameter	Symbol	Min.	Typ	Max	Unit
LED current		-	20	-	mA
Power Consumption		348	384	408	mW
LED voltage	LED+	17.4	19.2	20.4	V
LED Life Time		-	50,000	-	Hr