



**RAYSTAR**

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## **RFJ350W-AWH-DNN**

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### **SPECIFICATION**

#### **General Specifications**

- Size: 3.5 inch
- Dot Matrix: 240 x RGB x 320(TFT) dots
- Module dimension: 61.8 (W) x 88.5 (H) x 4.71(D) mm
- Active area: 53.28 x 71.04 mm
- LCD type: TFT, Normally Black, Transmissive
- View Direction: Wide View
- Aspect Ratio: Portrait
- TFT Driver IC: HX8347-A Or Equal
- TFT Interface: MCU 8/16/18-bit
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

\*Color tone slight changed by temperature and driving voltage.

# Interface

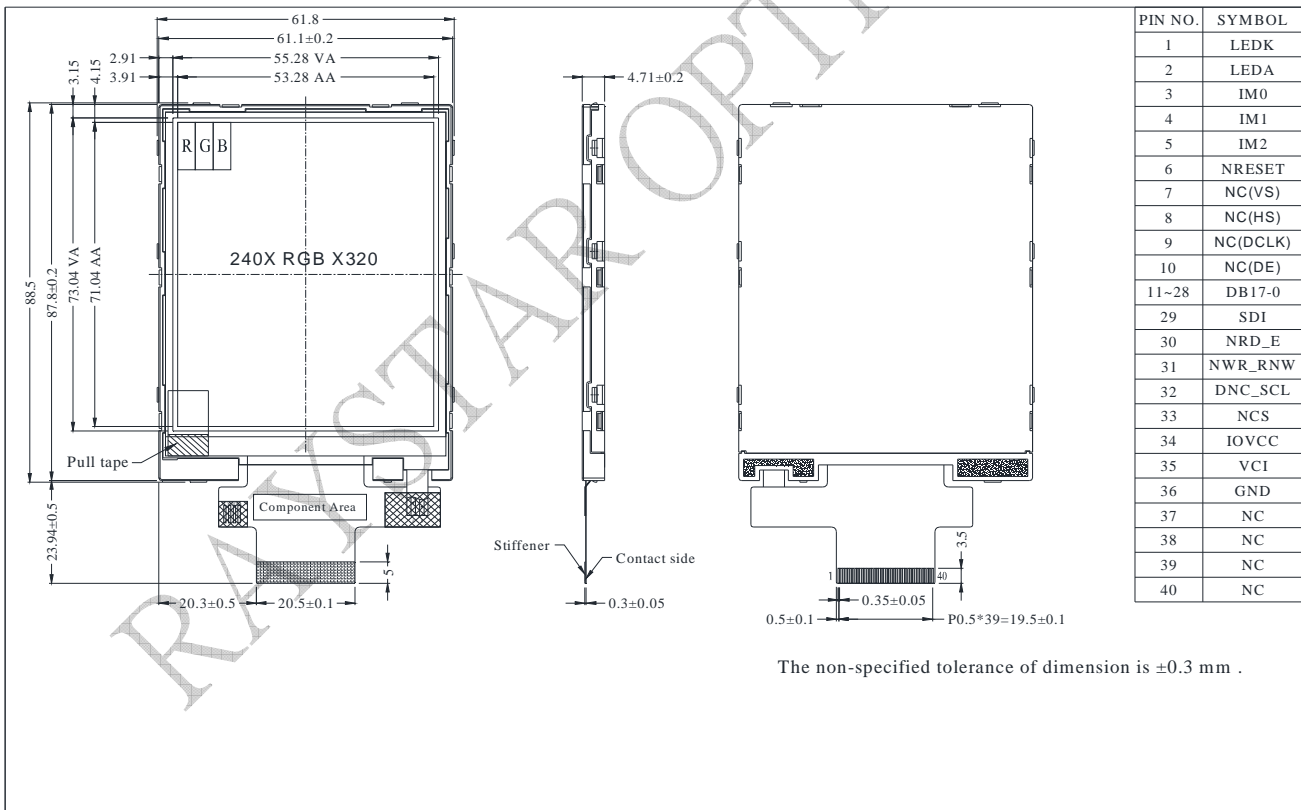
## LCM PIN Definition

NO	Symbol	Function	I/O
1	LEDK	Cathode of LED backlight	P
2	LEDA	Anode of LED backlight.	P
3	IM0	Note 1	I
4	IM1	Note 1	I
5	IM2	Note 1	I
6	NRESET	System reset pin.	I
7	NC(VS)	No Connection (Vrtical Sync signal option)	I
8	NC(HS)	No Connection (Horizontal Sync signal option)	I
9	NC(DCLK)	No Connection (Pixel clock signal option)	I
10	NC(DE)	No Connection (Data Enable option)	I
11-28	DB17-0	Data bus	I/O
29	SDI	Serial data input/output bi-direction pin	I/O
30	NRD_E	Read strobe signal. Read out data when RDX is Low.	I
31	NWR_RNW	Write data when WRX is Low.	I
32	DNC_SCL	Register select	I
33	NCS	Chip select signal	I
34	IOVCC	Power supply	P
35	VCI	Power supply	P
36	GND	Ground	P
37	NC	No Connection	
38	NC	No Connection	
39	NC	No Connection	
40	NC	No Connection	

Note 1:

IM2	IM1	IM0	Interface mode	DB pins
0	0	0	16-bit bus interface, 80-system,65K-Color	D17-D16: Unused D15-D0: Data
0	0	1	16-bit bus interface, 80-system,262K-Color	D17-D16: Unused D15-D0: Data
0	1	0	18-bit bus interface, 80-system,262K-Color	D17-D0: Data
0	1	1	8-bit bus interface, 80-system,262K-Color	D17-D8: Unused D7-D0: Data
1	0	0	16-bit bus interface, 80-system,262K-Color	D17-D16: Unused D15-D0: Data
1	0	1	18-bit bus interface, 80-system,262K-Color	D17-D0: Data

## Contour Drawing



## Absolute Maximum Ratings

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

## Electrical Characteristics

### 1. Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for digital	IOVCC	—	1.65	—	3.3	V
Supply Voltage for analog	VCI	—	2.3	—	3.3	V
Power Supply for Current	ICC	IOVCC=VCI =VCC=3.28V	—	10	—	mA

### 2. LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	270	—	mA
LED voltage	LEDA	8.1	9.6	10.8	V
LED Life Time	—	50000	—	—	Hr