



RAYSTAR

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RFS520C-ELW-DBN

General Specifications

- Size: 5.2 inch
- Dot Matrix: 480 x RGB x 128 dots
- Module dimension: 180.0 x 65.0 x 11.1 mm
- Active area: 127.152 x 33.9072 mm
- Dot pitch: 0.0883 x 0.2649 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 6 o'clock
- Gray Scale Inversion Direction: 12 o'clock
- Aspect Ratio: Bar Type
- Backlight Type: LED, Normally White
- Driver IC: MR6566
- Interface: Digital 8080 family MPU 8bit
- Touch Panel: Without Touch Panel
- Surface: Glare

Interface

LCM PIN Definition (CON4)

Pin	Symbol	Function
1	GND	Ground.
2	NC	No connect
3	NC	No connect
4	D/C	Data/Command select
5	WR	Write control
6	RD	Read control
7	DB0	Data bus
8	DB1	Data bus
9	DB2	Data bus
10	DB3	Data bus
11	DB4	Data bus
12	DB5	Data bus
13	DB6	Data bus
14	DB7	Data bus
15-24	NC	No connect
25	CS	Chip select
26	RESET	Reset
27	LR	Right /Left selection; Default R/L is Pull High
28	UD	Up/down selection; Default U/D is Pull High
29-32	NC	No connection
33-34	GND	Ground.
35-36	VDD5V	Power Supply (+5V)

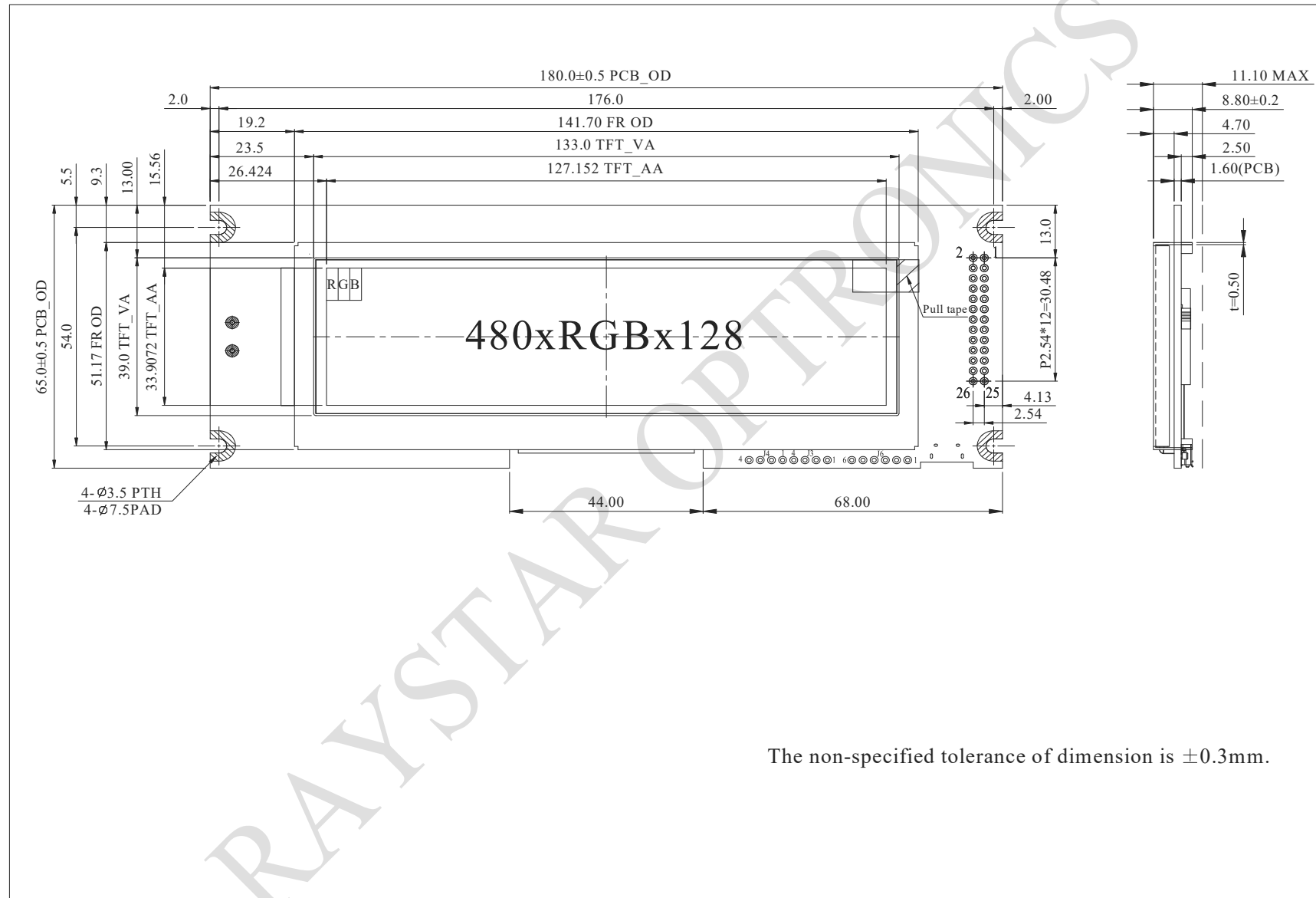
LCM PIN Definition (CON1)**(MCU8080 the same with the WG24064A for RA6963 serial)**

Pin	Symbol	Function
1	FG	System round pin of the IC. Connect to system ground
2	GND	Ground.
3	VDD5V	Power Supply (+5V)
4	NC	No connect
5	WR	Write control
6	RD	Read control
7	CS	Chip select
8	D/C	Data/Command select
9	NC	No connection
10	RESET	Reset
11	DB0	Data bus
12	DB1	Data bus
13	DB2	Data bus
14	DB3	Data bus
15	DB4	Data bus
16	DB5	Data bus
17	DB6	Data bus
18	DB7	Data bus
19-20	NC	No connection
21	VDD5V	Power Supply (+5V)
22	GND	Ground.
23-25	NC	No connection
26	GND	Ground.

USB (USB upgrade image file)

Pin	Symbol	Function
1	5V	Power 5V
2	D-	Data line -
3	D+	Data line +
4	NC	No connection
5	GND	Power Ground

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 condition

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD5V	4.5	5.0	5.5	V
Supply Current For LCM	IDD	-	500	750	mA
LED Life Time		-	50,000	-	Hr