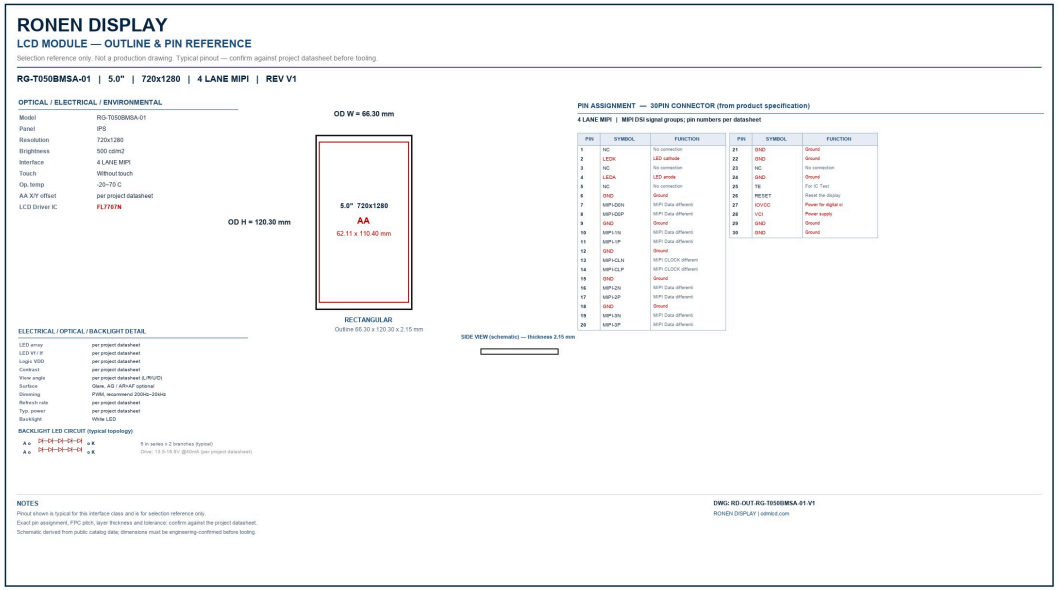
RONEN DISPLAY

LCD Module Datasheet

RG-T050BMSA-01

SPECIFICATION

Display Size	5.0 inch
Resolution	720x1280
LCD Type / Shape	IPS
Luminance	500 cd/m2
Module Interface	4 LANE MIPI
Touch Option	Without touch
Active Area (mm)	62.11x110.40
Outline Dim. (mm)	66.30x120.30x2.15
Operating Temp. (°C)	-20 ~ +70 degC
Storage Temp. (°C)	-30 ~ +80 degC


RONEN DISPLAY

LCD MODULE — OUTLINE & PIN REFERENCE

Selection reference only. Not a production drawing. Typical pinout — confirm against project datasheet before tooling.

RG-T050BMSA-01 | 5.0" | 720x1280 | 4 LANE MIPI | REV V1

OPTICAL / ELECTRICAL / ENVIRONMENTAL

Model	RG-T050BMSA-01
Panel	IPS
Resolution	720x1280
Brightness	500 cd/m2
Interface	4 LANE MIPI
Touch	Without touch
Op. temp	-20~70 C
AA X/Y offset	per project datasheet
LCD Driver IC	FL7707N

OD W = 66.30 mm

OD H = 120.30 mm

5.0" 720x1280

AA

62.11 x 110.40 mm

RECTANGULAR

Outline 66.30 x 120.30 x 2.15 mm

SIDE VIEW (schematic) — thickness 2.15 mm

PIN ASSIGNMENT — 30PIN CONNECTOR (from product specification)

4 LANE MIPI | MIPI DSI signal groups; pin numbers per datasheet

PIN	SYMBOL	FUNCTION
1	NC	No connection
2	LEDK	LED cathode
3	NC	No connection
4	LEDA	LED anode
5	NC	No connection
6	GND	Ground
7	MIP1-DN	MIPI Data different
8	MIP1-DP	MIPI Data different
9	GND	Ground
10	MIP1-IN	MIPI Data different
11	MIP1-IP	MIPI Data different
12	GND	Ground
13	MIP1-CLN	MIPI CLOCK different
14	MIP1-CLP	MIPI CLOCK different
15	GND	Ground
16	MIP1-2N	MIPI Data different
17	MIP1-2P	MIPI Data different
18	GND	Ground
19	MIP1-3N	MIPI Data different
20	MIP1-3P	MIPI Data different

PIN	SYMBOL	FUNCTION
21	GND	Ground
22	GND	Ground
23	NC	No connection
24	GND	Ground
25	TE	For IC Test
26	RESET	Reset the display
27	IOVCC	Power for digital ci
28	VCI	Power supply
29	GND	Ground
30	GND	Ground

ELECTRICAL / OPTICAL / BACKLIGHT DETAIL

LED array	per project datasheet
LED Vf / If	per project datasheet
Logic VDD	per project datasheet
Contrast	per project datasheet
View angle	per project datasheet (L/R/U/D)
Surface	Glare, AG / AR+AF optional
Dimming	PWM, recommend 200Hz~20kHz
Refresh rate	per project datasheet
Typ. power	per project datasheet
Backlight	White LED

BACKLIGHT LED CIRCUIT (typical topology)

A o — [D][D][D][D][D] — o K

A o — [D][D][D][D][D] — o K

8 in series x 2 branches (typical)

Drive: 19.5-38.5V @60mA (per project datasheet)

NOTES

Pinout shown is typical for this interface class and is for selection reference only.

Exact pin assignment, FPC pitch, layer thickness and tolerance: confirm against the project datasheet.

Schematic derived from public catalog data; dimensions must be engineering-confirmed before tooling.

DWG: RD-OUT-RG-T050BMSA-01-V1

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Outline drawing - for reference only; confirm with latest datasheet.

Notes

Values are typical at 25 degC unless otherwise specified. Full drawing, pin assignment and qualification data available on request. Sales terms are confirmed per project.

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