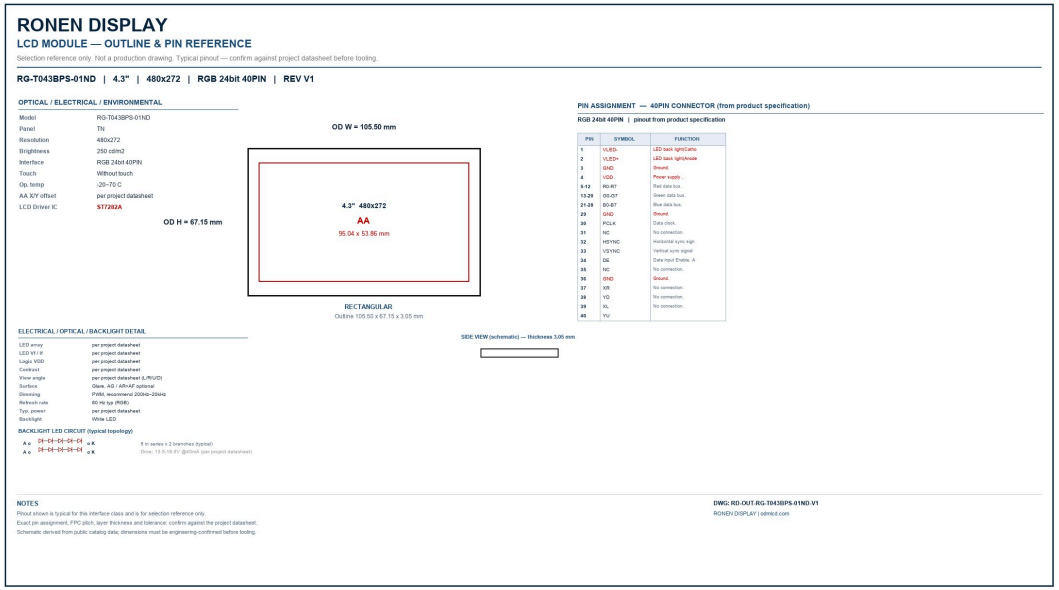
RONEN DISPLAY

LCD Module Datasheet

RG-T043BPS-01ND

SPECIFICATION

Display Size	4.3 inch
Resolution	480x272
LCD Type / Shape	TN
Luminance	250 cd/m2
Module Interface	RGB 24bit 40PIN
Touch Option	Without touch
Active Area (mm)	95.04x53.86
Outline Dim. (mm)	105.50x67.15x3.05
Operating Temp. (°C)	-20 ~ +70 degC
Storage Temp. (°C)	-30 ~ +80 degC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LCD MODULE — OUTLINE & PIN REFERENCE

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

RG-T043BPS-01ND | 4.3" | 480x272 | RGB 24bit 40PIN | REV V1

OPTICAL / ELECTRICAL / ENVIRONMENTAL

Model	RG-T043BPS-01ND
Panel	TN
Resolution	480x272
Brightness	250 cd/m2
Interface	RGB 24bit 40PIN
Touch	Without touch
Op. temp	-20~70 C
AA X/Y offset	per project datasheet
LCD Driver IC	ST7282A

OD W = 105.50 mm

4.3" 480x272

AA

95.04 x 53.86 mm

OD H = 67.15 mm

RECTANGULAR

Outline 105.50 x 67.15 x 3.05 mm

PIN ASSIGNMENT — 40PIN CONNECTOR (from product specification)

RGB 24bit 40PIN | pinout from product specification

PIN	SYMBOL	FUNCTION
1	VLED-	LED back light(Cathode
2	VLED+	LED back light(Anode
3	GND	Ground.
4	VDD	Power supply.
5-12	R0-R7	Red data bus.
13-20	G0-G7	Green data bus.
21-28	B0-B7	Blue data bus.
29	GND	Ground.
30	PCLK	Data clock.
31	NC	No connection.
32	HSYNC	Horizontal sync sign
33	VSYNC	Vertical sync signal.
34	DE	Data input Enable. A
35	NC	No connection.
36	GND	Ground.
37	XR	No connection.
38	YD	No connection.
39	XL	No connection.
40	YU	

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	60 Hz typ (RGB)
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 × 2 branches (typical)

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

SIDE VIEW (schematic) — thickness 3.05 mm

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-T043BPS-01ND-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.

RONEN DISPLAY | sales@odmlcd.com | odmlcd.com