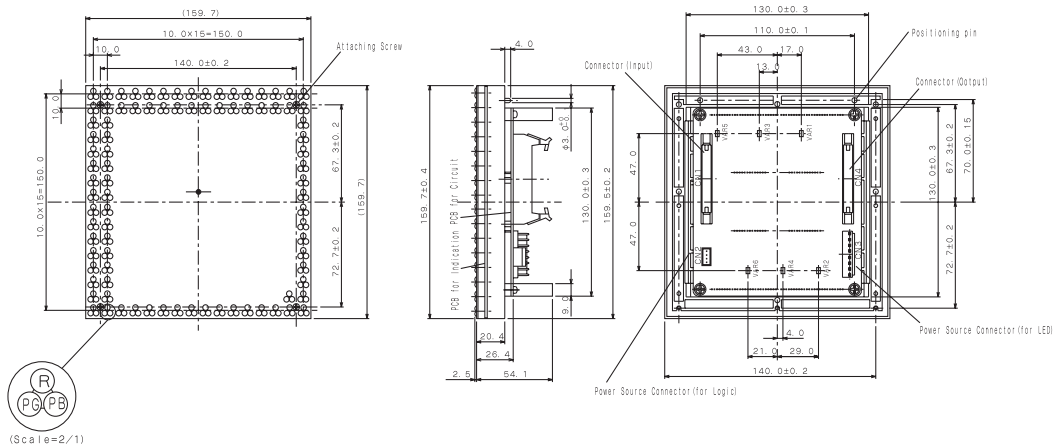


# FULL COLOR PANEL DISPLAY UNITS

160 × 160 mm

10 mm 16 × 16 Dots LNP728031

Outline Drawing



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Supply Voltage for Logic	V <sub>CC</sub>	- 0.3 ~ + 5.25	V
Supply Voltage for LED	V <sub>LED</sub>	R: + 3.2 PG: + 5.0 PB: + 5.0	V
Input Voltage	V <sub>in</sub>	- 0.3 ~ V <sub>CC</sub> + 0.3	V
Operating Ambient Temperature	T <sub>opr</sub>	- 20 ~ + 45	°C
Storage Temperature	T <sub>stg</sub>	- 30 ~ + 80	°C

Main Specifications (Ta = 25°C)

Item	Symbol	Ratings	Unit	
Display Colors		Full Color (Red, Green, Blue)		
Display Surface Size		160 × 160	mm	
Dot Total Number		256 ( 10 16 × 16)		
Dot Structure		R:1 PG:1 PB:1		
Dots Pitch		10.0	mm	
Brightness(when lighting all lamps)	B	R:700 PG:1570 PB:230(W):2500	cd/m <sup>2</sup>	
Area Gradation		R:PG:PB 256 gradation for each color		
Peak Emission Wavelength (Typ)	λ <sub>p</sub>	R:620 PG:525 PB:468	nm	
Viewing Angle (50% Luminous)	2θ 1/2	Level 140, Up 50, Down 70	°	
Operating Method		1/8 Duty ) Dynamic lighting		
Date Forward Frequency		8	MHz	
Clock Frequency		500	KHz	
for Logic	Supply Voltage	V <sub>CC</sub>	5.0 ± 0.25	V
	Supply Current	I <sub>CC</sub>	Max 0.5	A
for LED	Supply Voltage	V <sub>R</sub>	3.0	V
		V <sub>PG</sub> ·V <sub>PB</sub>	4.8	
	Supply Current	I <sub>R</sub>	Max 3.4	A
		I <sub>PG</sub>	Max 3.1	
I <sub>PB</sub>		Max 2.0		
Mass			500	g