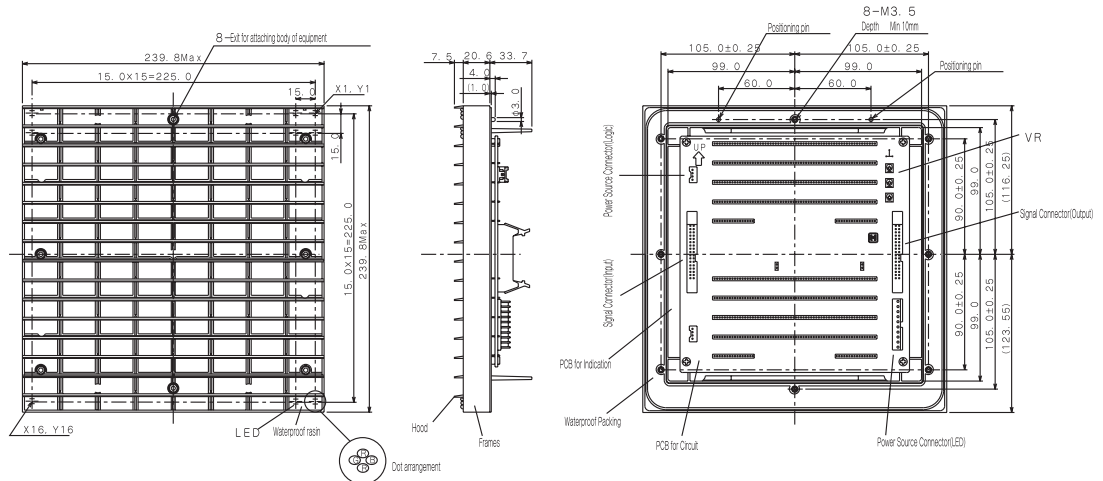


# FULL COLOR PANEL DISPLAY UNITS

240 × 240 mm

13 mm 16 × 16 Dots LNP729101

Outline Drawing



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rated	Unit
Supply Voltage for Logic	V <sub>CC</sub>	- 0.3 ~ + 5.25	V
Supply Voltage for LED	V <sub>LED</sub>	R: + 5.0 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	Rated	Unit	
Display Colors		Full Color (Red, Green, Blue)		
Display Surface Size		Max 239.8 × 239.8	mm	
Dot Total Number		256 ( 13 16 × 16)		
Dot Structure		R:2 PG:1 PB:1		
Dots Pitch		15.0	mm	
Brightness(when lighting all lamps)	B	R:1600 PG:3150 PB:500(W):5000	cd/m <sup>2</sup>	
Dots Brightness Variation		+ 5 - 20	%	
Area Gradation		R:PG:PB 256 gradation for each color		
Modulated Light		8	%	
Peak Emission Wavelength (Typ)	λ <sub>p</sub>	R:620 PG:515 PB:468	nm	
Viewing Angle (50 % Luminous)	2θ 1/2	Level 120,Up10,Down40	°	
Operating Method		1/χ Duty ) Dynamic lighting		
Operating Frequency	f <sub>CLK</sub>	2 or 4	MHz	
	f <sub>ECLK</sub>	8		
for Logic	Supply Voltage	V <sub>CC</sub>	5.0 ± 0.25	V
	Supply Current	I <sub>CC</sub>	Max 1.0	A
	Supply Voltage	V <sub>R</sub> ·V <sub>PG</sub> ·V <sub>PB</sub>	4.8	V
for LED	Supply Current	I <sub>R</sub>	Max 4.0	A
		I <sub>PG</sub>	Max 6.4	
		I <sub>PB</sub>	Max 4.8	
Mass			1100	g