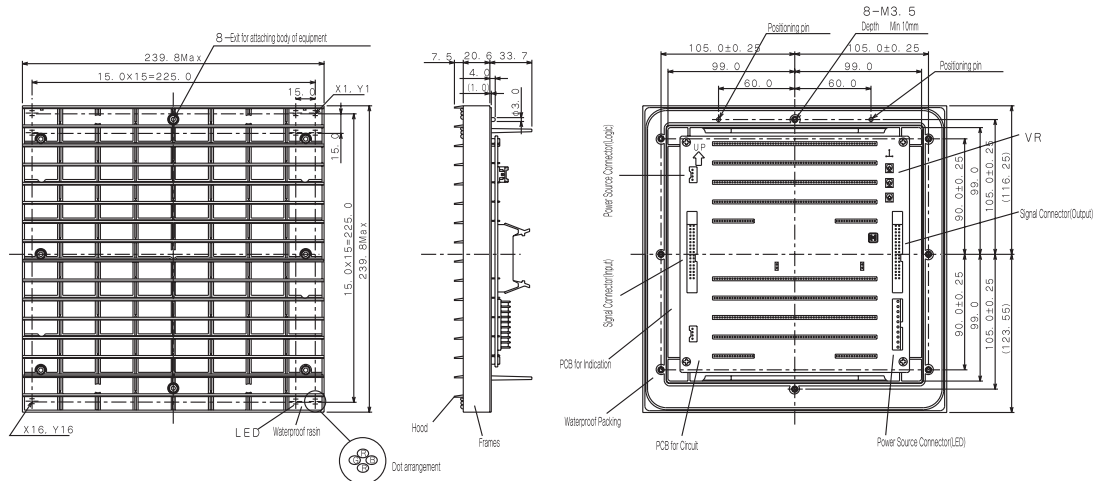


FULL COLOR PANEL DISPLAY UNITS

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 _{CC}	- 0.3 ~ + 5.25	V
Supply Voltage for LED	V _{LED}	R: + 5.0 PG: + 5.0 PB: + 5.0	V
Input Voltage	V _{in}	- 0.3 ~ V _{CC} + 0.3	V
Operating Ambient Temperature	T _{opr}	- 20 ~ + 45	°C
Storage Temperature	T _{stg}	- 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 ²	
Dots Brightness Variation		+ 5 - 20	%	
Area Gradation		R:PG:PB 256 gradation for each color		
Modulated Light		8	%	
Peak Emission Wavelength (Typ)	λ _p	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 _{CLK}	2 or 4	MHz	
	f _{ECLK}	8		
for Logic	Supply Voltage	V _{CC}	5.0 ± 0.25	V
	Supply Current	I _{CC}	Max 1.0	A
	Supply Voltage	V _R ·V _{PG} ·V _{PB}	4.8	V
for LED	Supply Current	I _R	Max 4.0	A
		I _{PG}	Max 6.4	
		I _{PB}	Max 4.8	
Mass			1100	g