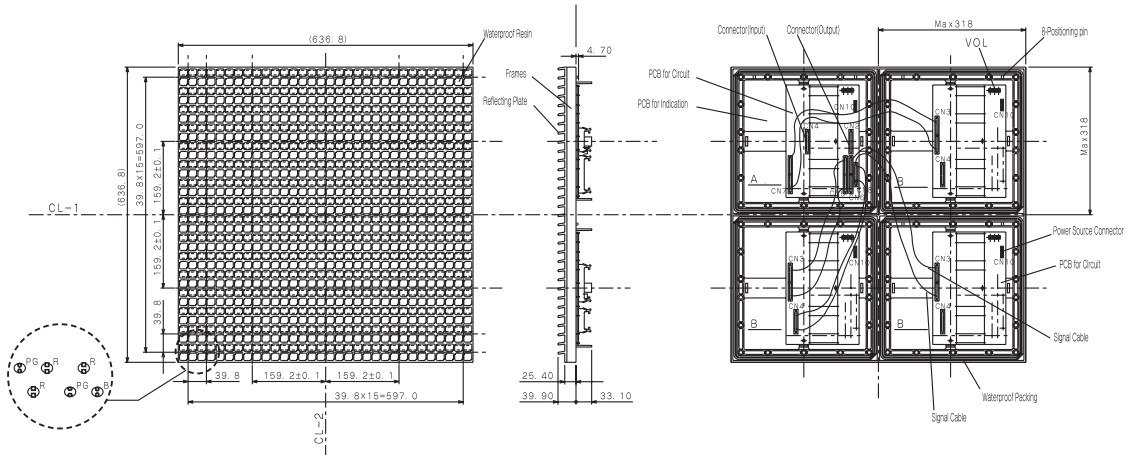


FULL COLOR PANEL DISPLAY UNITS

640 × 640 mm

16 × 16 Dots LNP721041

Outline Drawing



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Supply Voltage for Logic	V _{CC}	- 0.3 ~ + 5.25	V
Supply Voltage for LED	V _{LED}	R: + 7.8 PG: + 7.8 PB: + 5.2	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	Ratings	Unit	
Display Colors		Full Color (Red, Green, Blue)		
Display Surface Size		640 × 640	mm	
Dot Total Number		256 (16 × 16)		
Dot Structure		R:3 PG:1 PB:1		
Dots Pitch		40.0	mm	
Brightness(when lighting all lamps)	B	R:1010 PG:1930 PB:370 W:3000	cd/m ²	
Dots Brightness Variation		± 26	%	
Area Gradation		R:PG:PB 256 gradation for each color		
Modulated Light		8		
Peak Emission Wavelength (Typ)	λ _p	R:620 PG:525 PB:468	nm	
Viewing Angle (50 % Luminous)	2θ 1/2	Level 70 35, Up10, Down 18	°	
Operating Method		Static lighting		
Operating Frequency	f _{CLK}	2	MHz	
Scan Frequency	f _{ECLK}	8		
for Logic	Supply Voltage	V _{CC}	5.0 ± 0.25	V
	Supply Current	I _{CC}	Max 1.0	A
for LED	Supply Voltage	V _R · V _{PG}	7.6	V
		V _{PB}	5.0	
	Supply Current	I _R · I _{PG} · I _{PB}	Max 7.8	A
Mass			10	Kg