LNP129021

Pandel Display Units

RG Type

■ Structure

- Illumination color: Red, Green, Amber (Red and Green lighting)
- Display surface: 239.8 mm × 239.8 mm
- Number of dots (dot): 256 (16 × 16 dot)
- Dot size: 13 mm × 13 mm
- Dot pitch: 15.0 mm

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Operating supply voltage	V_{CC}	– 0.3 to +5.5	V
LED operating supply voltage	V_{LEDA}	+5.5	V
Input voltage	V_{IN}	– 0.3 to V_{CC} + 0.3	V
Operating ambient temperature	T_{opr}	–20 to +45	°C
Storage temperature	T_{stg}	–30 to +80	°C

■ Recommending Operating Conditions T_a = 25°C±3°C

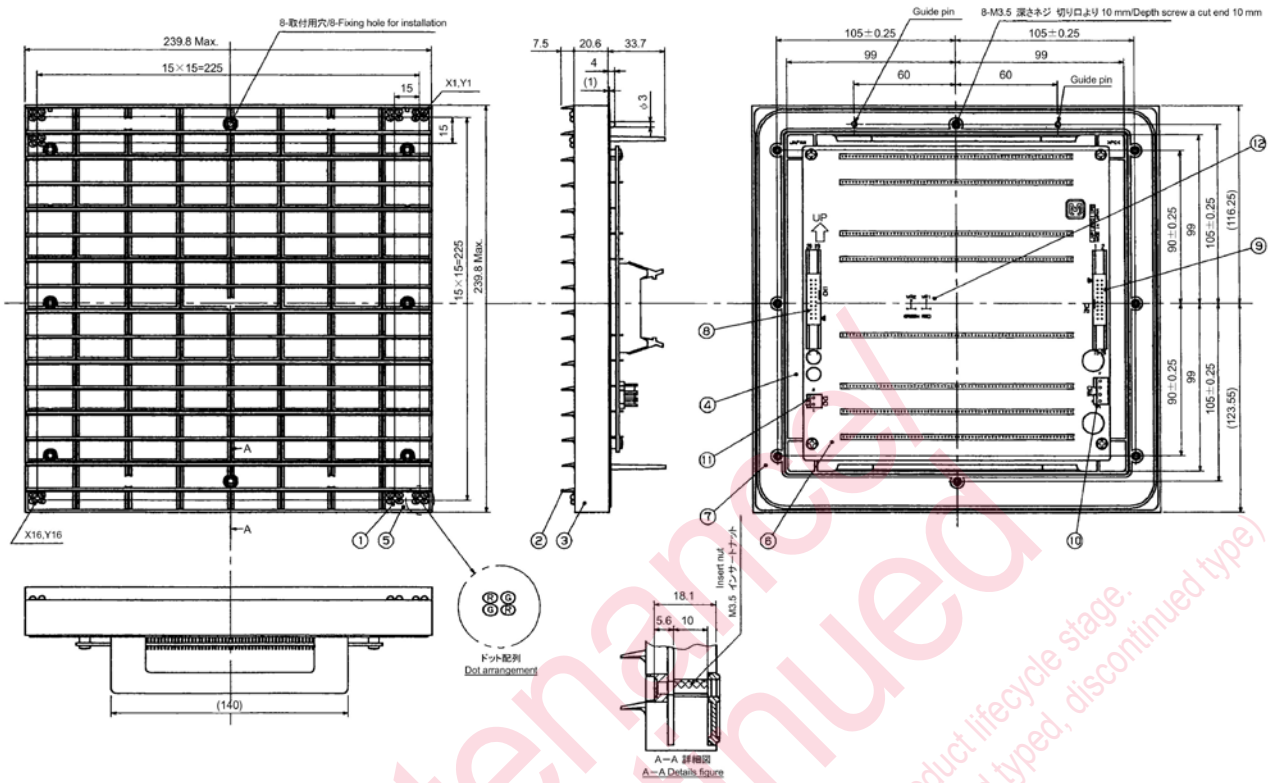
Parameter	Symbol	Min	Typ	Max	Unit
Operating supply voltage	V_{CC}	4.75	5.0	5.25	V
LED operating supply voltage	V_{LEDA}	5.10	5.2	5.30	V
Input voltage	V_{IN}	0.0	—	V_{CC}	V

■ Electro-Optical Characteristics T_a = 25°C±3°C, V_{CC} = 5.0 V, V_{LEDA} = 5.2 V

Parameter	Symbol	Specification		Unit
Brightness	—	Red	Typ. 1 800	cd/m²
		Green	Typ. 1 000	cd/m²
Peak emission wavelength	λ_p	Red	Typ. 650	nm
		Green	Typ. 565	nm
Viewing angle	$2\theta_{1/2}$	Direction of right and left	≥ 120	°
Drive system	—	Static driving		—
Clock frequency	f_{CLK}	Max. 5		MHz
Supply current (Logic) *	$I_{CC(LOGIC)}$	Max. 1.5		A
Supply current (LED) *	$I_{CC(LED)}$	Max. 10.5		A

Note) *: Two-color all lighting

■ Package (Unit: mm)



- Part name
  1. LED
  2. Hood
  3. Frame
  4. Display board
  5. Water proof resin
  6. Driver board
  7. Water proof packing
  8. Signal connector (input)
  9. Signal connector (output)
  10. Supply connector (LED)
  11. Supply connector (Logic)
  12. Volume

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