

**ATTENTION**

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part No.: NEM-19881AB-11

Features:

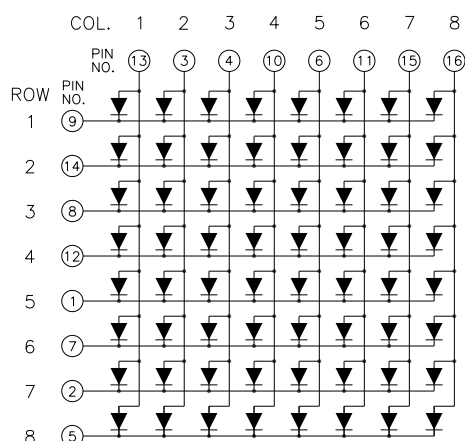
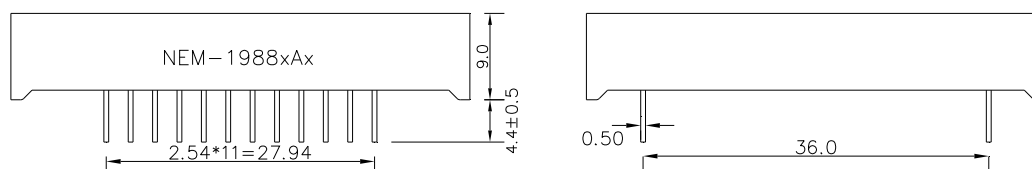
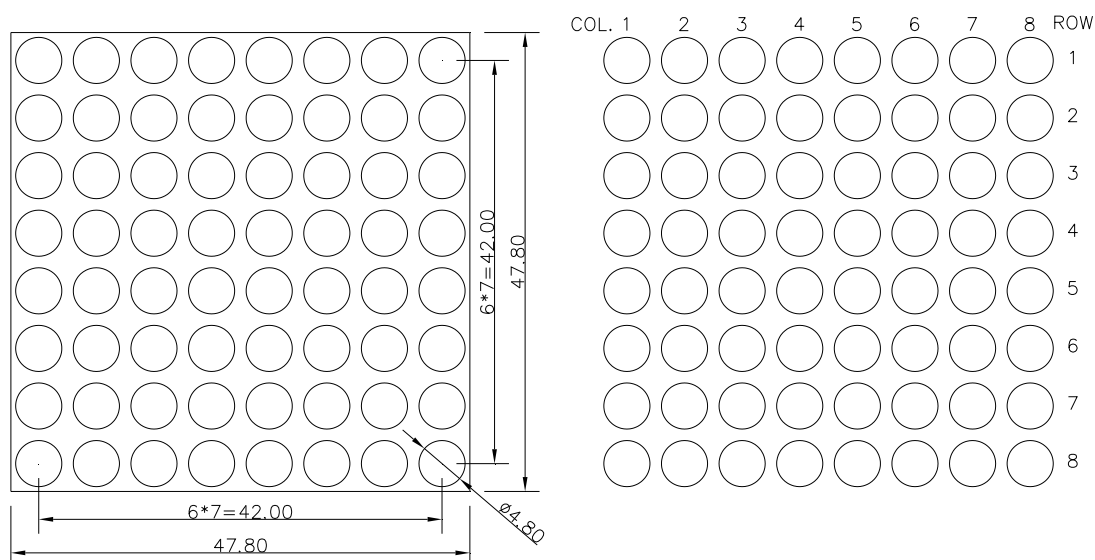
- Large emitting dot 4.8 mm diameter.
- Low current operation.
- Easy mounting on P.C. boards or sockets.
- Wide viewing angle.
- Solid state reliability.
- Mechanically rugged.
- Pb free.
- RoHS compliant.

Descriptions:

- The NEM-1988xAx series is a large emitting area (4.8 mm diameter) LED sources configured in a 64 dot 8*8 matrix array.
- These devices are made with black surface and white segments.
- The Blue source color devices are made with InGaN Blue Light Emitting Diode.

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Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters(inches),Tolerance is ± 0.25 (0.01") unless otherwise noted.
2. Specifications are subject to change without notice.

Absolute maximum ratings (Ta = 25℃)

Parameter	Symbol		Value		Unit
			Min.	Max.	
Reverse Voltage	VR	----	----	5	V
Forward Current	IF	----	----	25	mA
Power Dissipation	Pd	----	----	75	mW
Pulse Current	Ipeak	Duty=0.1mS, 1kHz	----	80	mA
Operating Temperature	Topr	----	-25	+85	℃
Storage Temperature	Tstr	----	-30	+85	℃
Solder Temperature	Tsol	1/16inch below Seating plane	260/3		℃/s

Electrical and optical characteristics (Ta = 25℃)

Parameter	Symbol	Test Condition	Values			Unit
			Min.	Typ.	Max.	
Forward Voltage	V _F	IF=20mA	----	3.0	3.5	V
Reverse Current	I _R	VR=5V	----	----	30	μ A
Dominate Wavelength	λ _d	IF=20mA	----	470	----	nm
Peak Wavelength	λ _p	IF=20mA	----	465	----	nm
Spectral Line half-width	Δ λ	IF=20mA	----	30	----	nm
Luminous Intensity	I _v	IF=10mA	----	12	----	mcd

Typical electrical/optical characteristic curves:

