

BRIGHT LED ELECTRONICS CORP.

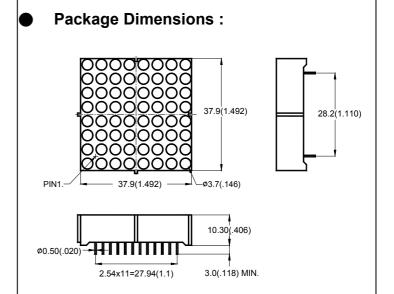
BM-11EG88NI

Features :

- 1. 1.496 inch (38.00mm) matrix height.
- 2. Dot size 3.7mm.
- 3. Low power requirement.
- 4. Excellent characters appearance.
- 5. Solid state reliability.
- 6. Multiplex drive, column cathode com. and row anode com.
- 7. Duple color available.
- 8. Categorized for luminous intensity.
- 9. Stackable vertically and horizontally.

Description :

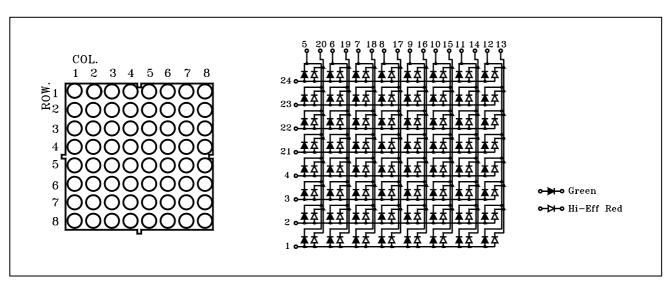
- 1. The BM-11EG88NI is a 38mm (1.5") matrix height 8×8 dot matrix display.
- This product use hi-eff red chips and green chips, the hi-eff red chips are made from GaAsP on GaP substrate, the green chips are made from GaP on GaP substrate.
- This product have a gray face and white dots.



Notes:

- 1. All dimensions are in millimeters(inches).
- 2. Tolerance is ±0.25mm(.01")unless otherwise specified.
- 3. Specifications are subject to change without notice.

Internal Circuit Diagram :





BRIGHT LED ELECTRONICS CORP.

BM-11EG88NI

■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Hi-Eff Red	Green	Unit
Power Dissipation Per Dot	Pd 80		80	mW
Forward Current Per Dot	I _F 30		30	mA
Peak Forward Current Per Dot	I _{FP} (Duty 1/10, 1KHZ)	150	150	mA
Reverse Voltage Per Dot	V_{R}	5		V
Operating Temperature	Topr	-40°C ~80°C		-
Storage Temperature	Tstg	-40°C ~85°C		-
Soldering Temperature (1/16" From Body)	Tsol	260°C For 5 Seconds		-

■ Electrical And Optical Characteristics(Ta=25°C)

Hi-Eff Red

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage Per Dot	V _F	I _F =10mA	-	1.9	2.5	V
Luminous Intensity Per Dot	lv	I _F =10mA	-	10.0	-	mcd
Reverse Current Per Dot	I _R	V _R =5V	-	-	100	μΑ
Peak Wave Length	λр	I _F =10mA	-	640	-	nm
Dominant Wave Length	λd	I _F =10mA	626	-	636	nm
Spectral Line Half-width	Δλ	I _F =10mA	-	40	-	nm

Green

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage Per Dot	V _F	I _F =10mA	-	2.1	2.5	V
Luminous Intensity Per Dot	lv	I _F =10mA	-	10.0	-	mcd
Reverse Current Per Dot	I _R	V _R =5V	-	-	100	μА
Peak Wave Length	λр	I _F =10mA	-	568	-	nm
Dominant Wave Length	λd	I _F =10mA	569	-	574	nm
Spectral Line Half-width	Δλ	I _F =10mA	-	30	-	nm



BRIGHT LED ELECTRONICS CORP.

BM-11EG88NI

Typical Electro-Optical Characteristics Curves

(25[°]C Ambient Temperature Unless Otherwise Noted)

