

# TOM-788HMB-B

## Dot Matrix Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOM-788HMB-B	InGaN	Hi-blue	Black	White

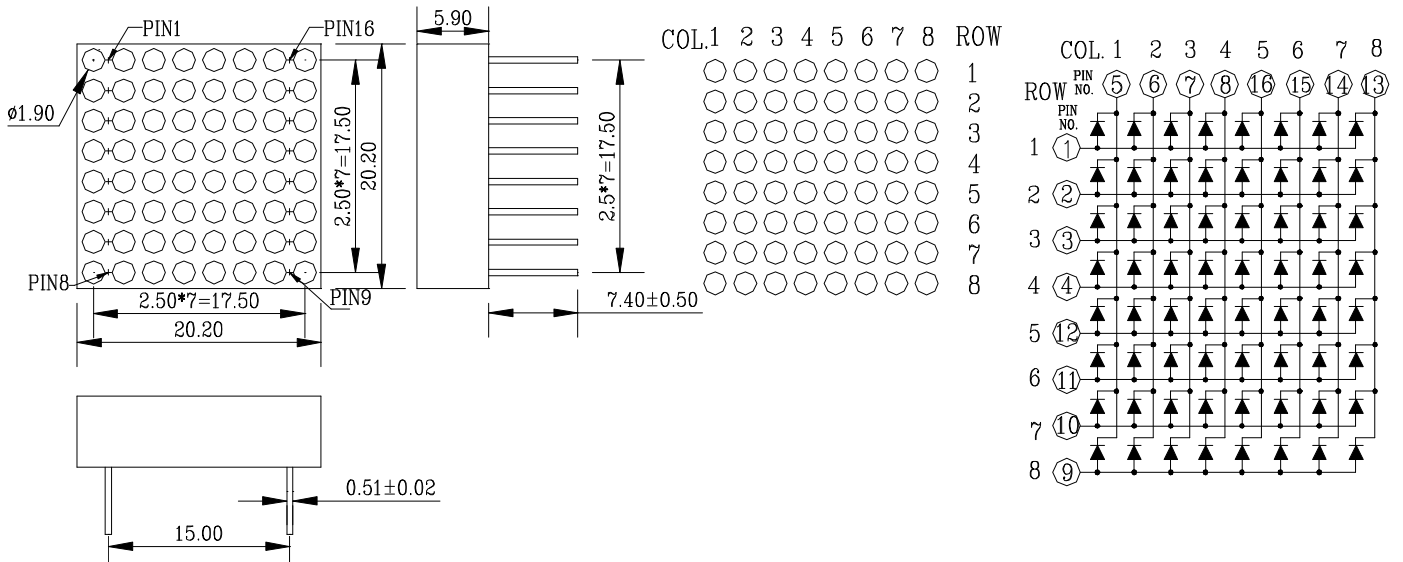
### Features

- (8x8)  $\phi$  1.90mm dot matrix
- Row common anode
- I.C. compatible
- Low power requirement
- RoHS compliant

### Applications

- Audio equipment
- Instrument panels
- Indoor display

### Package Dimensions & Internal Circuit Diagram



#### Notes:

1. All dimensions are in millimeters, tolerance:  $\pm 0.25$  ; Angle:  $\pm 0.1^\circ$  unless otherwise noted.
2. Specifications are subject to change without notice.

## Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) Per Dot	80	mA
Power Dissipation Per Dot	105	mW
Continuous Forward Current Per Dot	20	mA
Recommend Operating Current Per Dot	12	mA
Reverse Voltage Per Dot	5	V
Operating Temperature Range	-25°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead-Free Solder Temperature(1/16 Inch Below Seating Plane)	260°C for 3 Sec	

## Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Average Luminous Intensity Per Dot	I <sub>v</sub>		49362		ucd	I <sub>F</sub> =10mA	
Dominant Wavelength	λ <sub>d</sub>		465		nm	I <sub>F</sub> =20mA	
Spectral Line Half-Width	Δλ		26		nm	I <sub>F</sub> =20mA	
Forward Voltage Per Dot	V <sub>F</sub>		3.2	3.5	V	I <sub>F</sub> =20mA	
Reverse Current Per Dot	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V	
Luminous Intensity Matching Rate	I <sub>v</sub> -m			2.0:1		I <sub>F</sub> =20mA	

The DISPLAYS should be kept at 30°C or less and 60%RH or less. The DISPLAYS should be used within one year.