

1.90” (47.80mm) Φ 4.80mm 8*8 Single Color Dot Matrix Displays

Features:

- *Ultra dot intensity
- *Wide viewing angle
- *Range of colors
- *Black face White dot
- *RoHS compliant

Available option:

- *Alternative face and dot color
- *Cropped terminal pins
- *Available emitting color
- *Low current version

Electro/Optical Characteristics If=20mA Ta=25°C

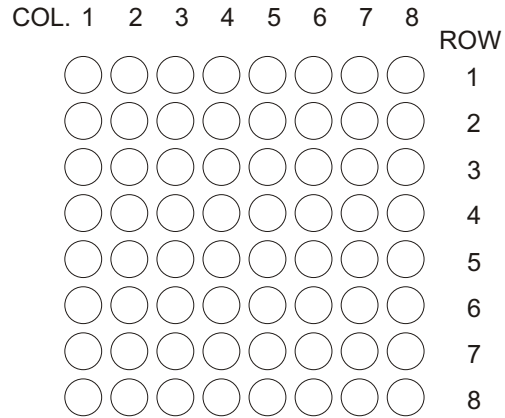
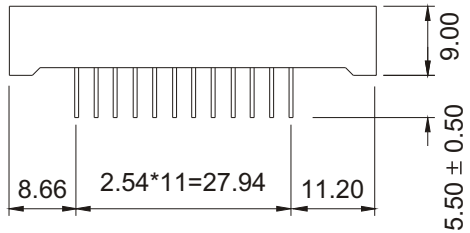
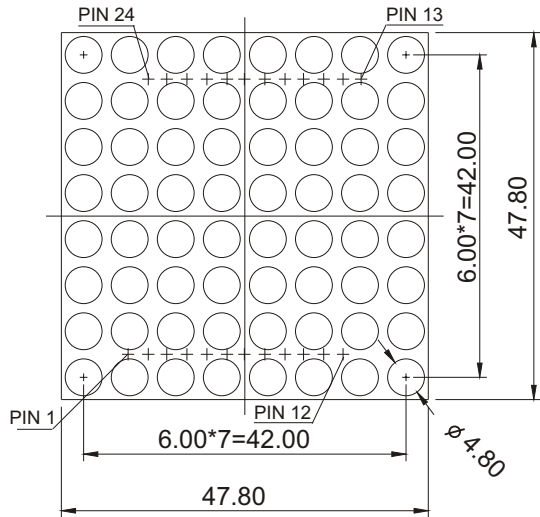
Part Number Common Cathode	Part Number Common Anode	Emitting Color	Peak Wavelength	Forward Voltage Vf/Dot		Luminous Intensity Iv/Dot	
				Typ.	Max.	Min.	Typ.
LM-88UR19-C	LM-88UR19-CC	AlGaInP/GaAs Ultra Red	640	2.00	2.50	40.00	60.00
LM-88UE19-C	LM-88UE19-CC	AlGaInP/GaAs Ultra Orange	632	2.00	2.50	40.00	60.00
LM-88UA19-C	LM-88UA19-CC	AlGaInP/GaAs Ultra Amber	605	2.00	2.50	40.00	60.00
LM-88UY19-C	LM-88UY19-CC	AlGaInP/GaAs Ultra Yellow	590	2.00	2.50	40.00	60.00
LM-88UG19-C	LM-88UG19-CC	AlGaInP/GaAs Ultra Green	574	2.10	2.50	25.00	40.00
LM-88UPG19-C	LM-88UPG19-CC	InGaN/SiC Pure Green	525	3.30	3.80	150.00	200.00
LM-88UB19-C	LM-88UB19-CC	InGaN/SiC Ultra Blue	470	3.30	3.80	40.00	100.00
LM-88UW19-C	LM-88UW19-CC	InGaN/SiC Ultra White	X-0.31/Y-0.31	3.30	3.80	200.00	500.00
Units			nm	V		mcd	

Maximum Ratings Ta=25°C (Derate above 25°C)

Characteristic	Test Condition	Symbol	UHR	UE	YO	UY	UG	PG	UB	UW	Units
Pulse Forward Current Per Dot	1/10 duty cycle 0.1ms Pulse width	I _{FP}	100	100	100	100	100	100	100	100	mA
DC Forward Current Per Dot		I _F	30	30	30	30	30	30	30	30	mA
Reverse Current Per Dot	V _R =5V	I _R	10	10	10	10	10	10	10	10	μA
Power Dissipation		P _D	65*64	65*64	65*64	65*64	75*64	110*64	120*64	120*64	mW
Operating Temperature		T _{OPR}	-40 to +80								°C
Storage Temperature		T _{TSG}	-40 to +85								°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260								°C

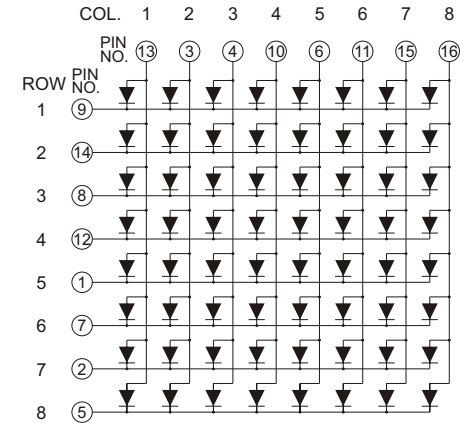
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PACKAGE DIMENSION

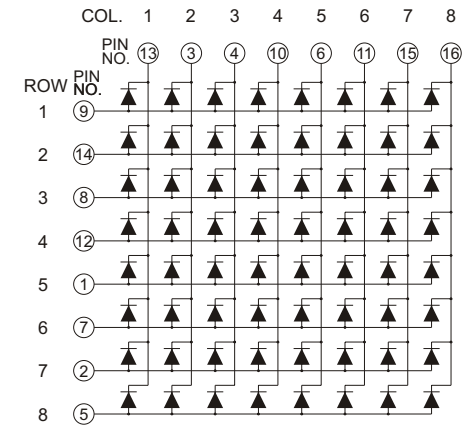


INTERNAL CIRCUIT DIAGRAM

Row Cathode
Column Anode



Row Anode
Column Cathode



Tolerance $\pm 0.25\text{mm}$ unless stated