



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

Features:

- *High 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 $I_f=20mA$ $T_a=25^\circ C$

Part Number Row Cathode Column Anode	Part Number Row Anode Column Cathode	Emitting Color	Peak Wavelength	Forward Voltage V_F /Dot		Luminous Intensity I_v /Dot	
				Typ.	Max.	Min.	Typ.
NFM-19881AH-11	NFM-19881BH-11	GaP/GaP Red	700	2.25	2.50	0.40	0.80
NFM-19881AS-11	NFM-19881BS-11	GaAlAs/GaAs SH Hi-Red	660	1.80	2.20	8.00	12.00
NFM-19881AD-11	NFM-19881BD-11	GaAlAs/GaAs DH Super Red	660	1.80	2.20	22.00	28.00
NFM-19881AE-11	NFM-19881BE-11	GaAsP/GaP Orange	632	2.10	2.50	8.00	12.00
NFM-19881AY-11	NFM-19881BY-11	GaAsP/GaP Yellow	585	2.10	2.50	4.00	7.00
NFM-19881AG-11	NFM-19881BG-11	GaP/GaP Green	568	2.20	2.50	7.00	11.00
Units			nm	V		mcd	

Maximum Ratings $T_a=25^\circ C$ (Derate above $25^\circ C$)

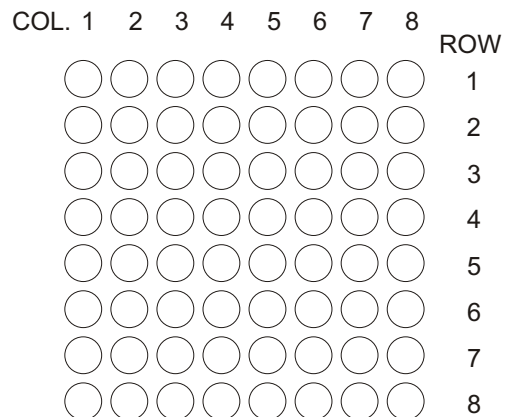
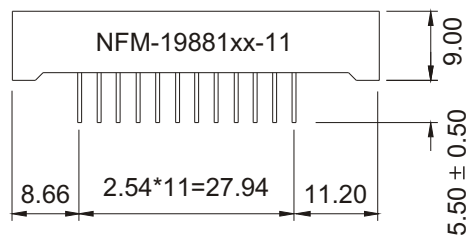
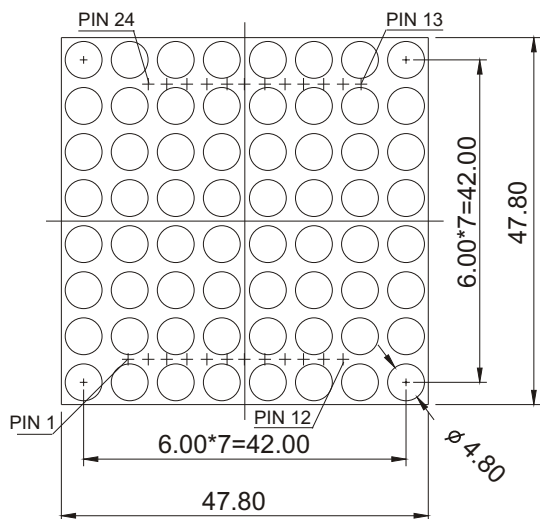
Characteristic	Test Condition	Symbol	H	S	D	E	Y	G	Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I_{FP}	50	100	100	100	100	100	mA
DC Forward Current Per Dot		I_F	15	25	25	30	30	30	mA
Reverse Current Per Dot	$V_R=5V$	I_R	10	10	10	10	10	10	μA
Power Dissipation		P_D	40*64	60*64	60*64	80*64	80*64	80*64	mW
Operating Temperature		T_{OPR}	-40 to +80						$^\circ C$
Storage Temperature		T_{TSG}	-40 to +85						$^\circ C$
Lead soldering temperature	1.60mm from body maximum 3 seconds		260						$^\circ C$

Checked	Chen N.H.	Approved	Jason Chen	Date	Jun/12/2010	PAGE 1 / 2			
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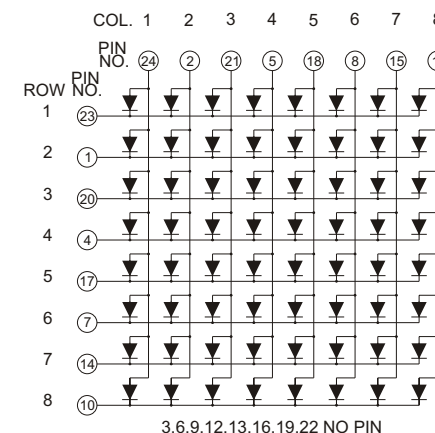
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PACKAGE DIMENSION

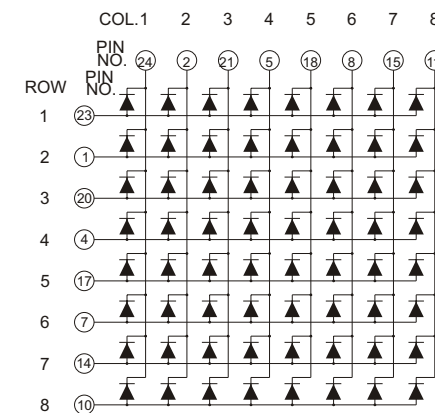


Row Cathode
Column Anode
NFM-19881Ax

INTERNAL CIRCUIT DIAGRAM



3,6,9,12,13,16,19,22 NO PIN



3,6,9,12,13,16,19,22 NO PIN

Tolerance ± 0.25 mm unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Jun/12/2010

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