



宁波飞扬电子有限公司

Ningbo Flying Electronics Co.,Ltd.

1.20" (32.00mm) Φ 3.00mm 8*8 Bi-Color Dot Matrix Displays

Features:

- *High dot intensity
- *Wide viewing angle
- *Bi- colors
- *Black face Clear 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 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-12881ASG-10	NFM-12881BSG-10	GaAlAs/GaAs Hi-Red	660	1.80	2.20	8.0	12.0
		GaP/GaP Green	570	2.20	2.50	7.0	11.0
NFM-12881AEG-10	NFM-12881BEG-10	GaAsP/GaP Orange	632	2.10	2.50	8.0	12.0
		GaP/GaP Green	570	2.20	2.50	7.0	11.0
NFM-12881AUEUG-10	NFM-12881BUEUG-10	AlGaInP/GaAs Ultra Orange	632	2.00	2.50	40.0	60.0
		AlGaInP/GaAs Ultra Green	574	2.10	2.50	25.0	40.0
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	S	G	E	UE	UG		Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I _{FP}	100	100	100	100	100		mA
DC Forward Current Per Dot		I _F	25	30	30	30	30		mA
Reverse Current Per Dot	V _R =5V	I _R	10	10	10	10	10		μA
Power Dissipation		P _D	60*64	80*64	80*64	65*64	75*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

Checked

Chen N.H.

Approved

Jason Chen

Date

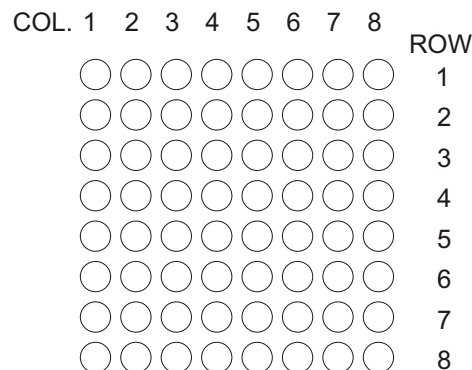
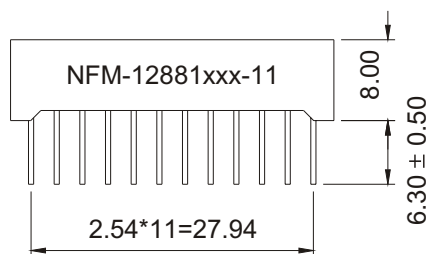
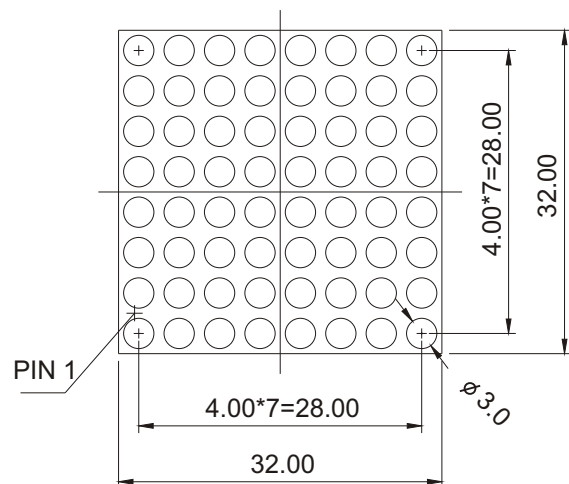
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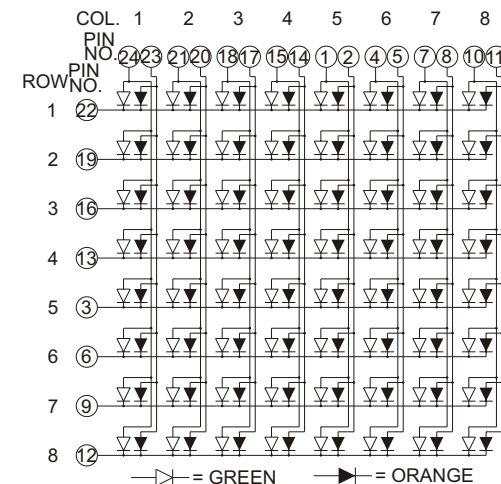
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PACKAGE DIMENSION

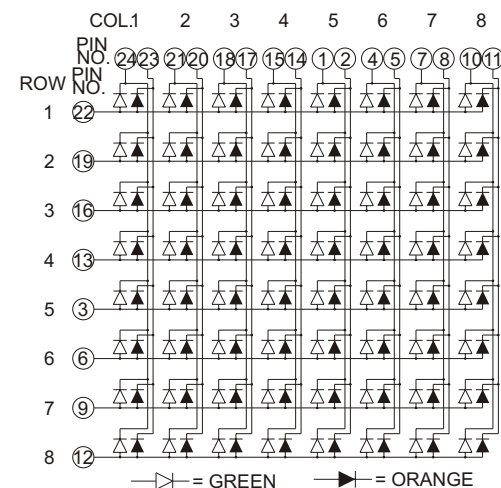


INTERNAL CIRCUIT DIAGRAM

Row Cathode
Column Anode
NFM-12881Axx



Row Anode
Column Cathode
NFM-12881Bxx



Tolerance ± 0.25 mm unless stated

Checked

Chen N.H.

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