



1.40" (37.0mm) Φ 2.00mm 12*4 Bi-Color Dot Matrix Displays

Features:

- *High dot intensity
- *Wide viewing angle
- *Bi- 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 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-14C41AYG-11	NFM-14C41BYG-11	GaAsP/GaP Yellow	585	2.10	2.50	4.0	6.0
		GaP/GaP Green	570	2.20	2.50	7.0	11.0
NFM-14C41AUYUG-11	NFM-14C41BUYUG-11	AlGaInP/GaAs Ultra Yellow	590	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	

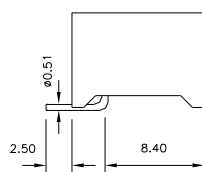
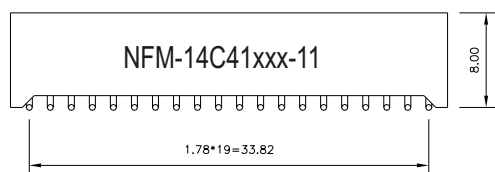
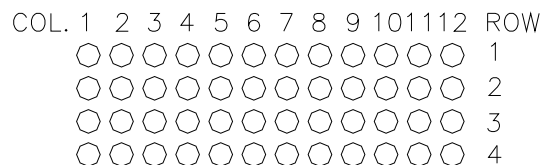
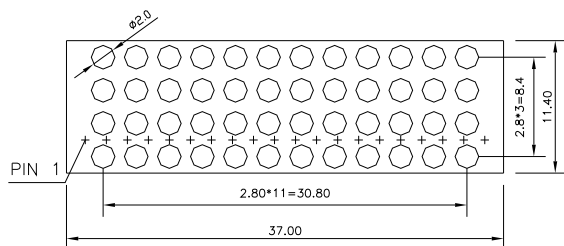
Maximum Ratings Ta=25°C (Derate above 25°C)

Characteristic	Test Condition	Symbol	Y	G	UY	UG		Units
Pulse Forward Current Per Dot	1/10duty cycle 0.1ms Pulse width	I _{FP}	100	100	100	100		mA
DC Forward Current Per Dot		I _F	30	30	30	30		mA
Reverse Current Per Dot	V _R =5V	I _R	10	10	10	10		μ A
Power Dissipation		P _D	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



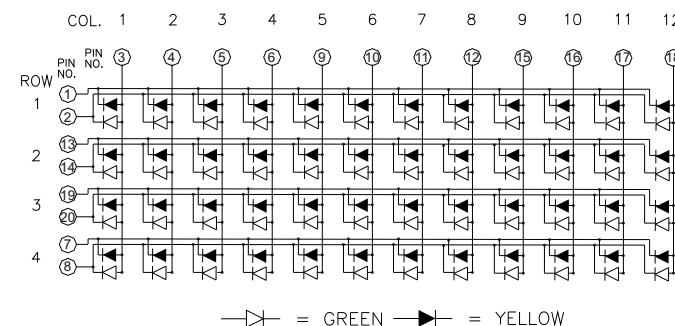
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PACKAGE DIMENSION

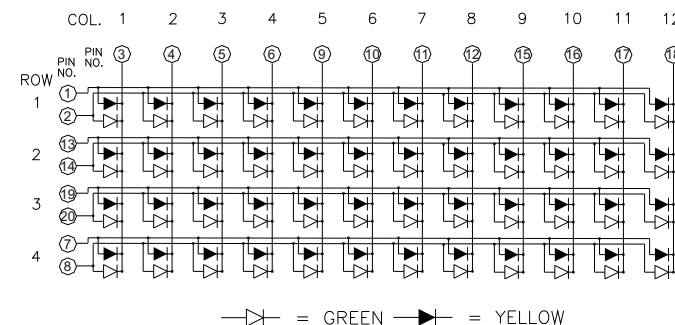


INTERNAL CIRCUIT DIAGRAM

Row Cathode
Column Anode
NFM-14C41Axx



Row Anode
Column Cathode
NFM-14C41Bxx



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

Checked

Chen N.H.

Approved

Jason Chen

Date

Dec/23/2008

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