



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)

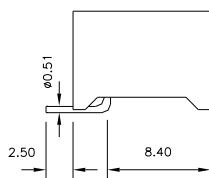
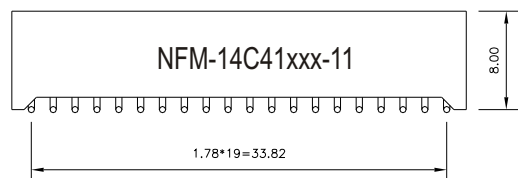
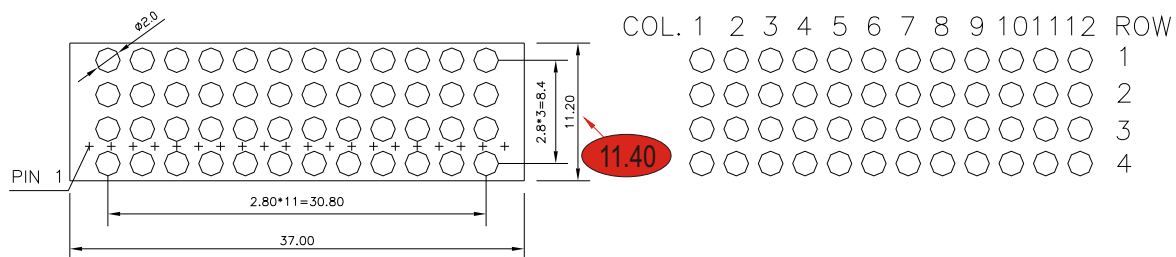
| Characteristic | Test Condition | Symbol | Y | G | UY | UG | | Units |
|-------------------------------|------------------------------------|------------------|------------|-------|-------|-------|--|-------|
| Pulse Forward Current Per Dot | 1/10duty cycle 0.1ms Pulse width | I _{FP} | 100 | 100 | 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 | | μA |
| 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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| Checked | Chen N.H. | Approved | Jason Chen | Date | Dec/23/2008 | PAGE 1 / 2 |
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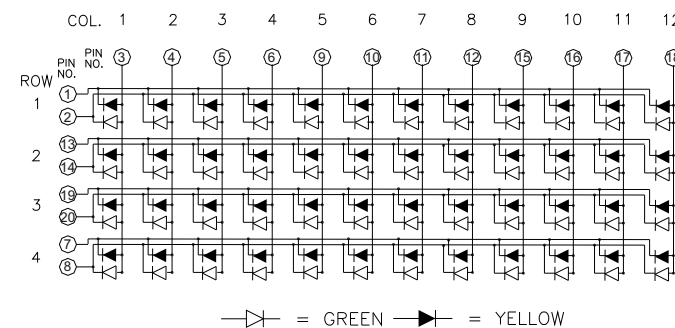
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PACKAGE DIMENSION

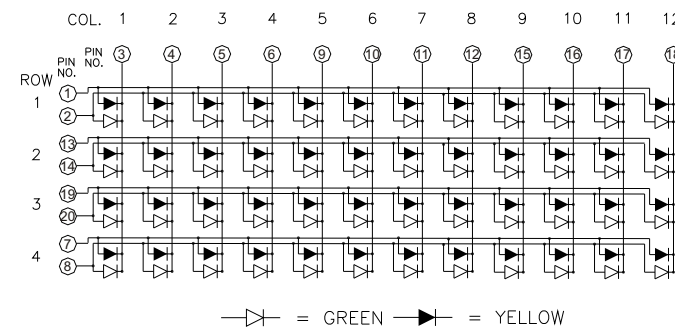


INTERNAL CIRCUIT DIAGRAM

Row Cathode
Column Anode
NFM-14C41Axx



Row Anode
Column Cathode
NFM-14C41Bxx



Tolerance ± 0.25 mm unless stated