



2.30" (60.20mm) Φ 5.00mm 8*8 Full Color Dot Matrix Displays

Features:

- *Ultra dot intensity
- *Wide viewing angle
- *Full colours
- *Black face White segment
- *RoHS compliant

Available option:

- *Alternative face and segment colour
- *Cropped terminal pins
- *Available emitting colour
- *Low current version

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

| Part Number Row Cathode Column Anode | Part Number Row Anode Column Cathode | Emitting Colors | Peak Wavelength | Forward Voltage VF/Dot | | Luminous Intensity Iv/Dot | |
|---|---|---------------------------|--------------------|------------------------|------|---------------------------|-----------|
| | | | | Typ. | Max. | Min. | Typ. |
| | NFM-23881BUEPGUB-11 | AlGaInP/GaAs Ultra Orange | 632 | 2.00 | 2.50 | 80.0 mcd | 110.0 mcd |
| | | InGaN/SiC Pure Green | 520 | 3.50 | 4.00 | 6.00 mW | 8.00 mW |
| | | InGaN/SiC Ultra Blue | 470 | 3.50 | 4.00 | 4.70 mW | 5.50 mW |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Units | | | nm | V | | | |

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

| Characteristic | Test Condition | Symbol | UE | PG | UB | | | | Units |
|-------------------------------|------------------------------------|------------------|------------|--------|--------|--|--|--|-------|
| Pulse Forward Current Per Dot | 1/10 duty cycle 0.1ms Pulse width | I _{FP} | 100 | 100 | 100 | | | | mA |
| DC Forward Current Per Dot | | I _F | 30 | 30 | 30 | | | | mA |
| Reverse Current Per Dot | V _r =5V | I _R | 10 | 10 | 10 | | | | μA |
| Power Dissipature | | P _D | 65*64 | 110*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 |

Checked

Chen N.H.

Approved

Jason Chen

Date

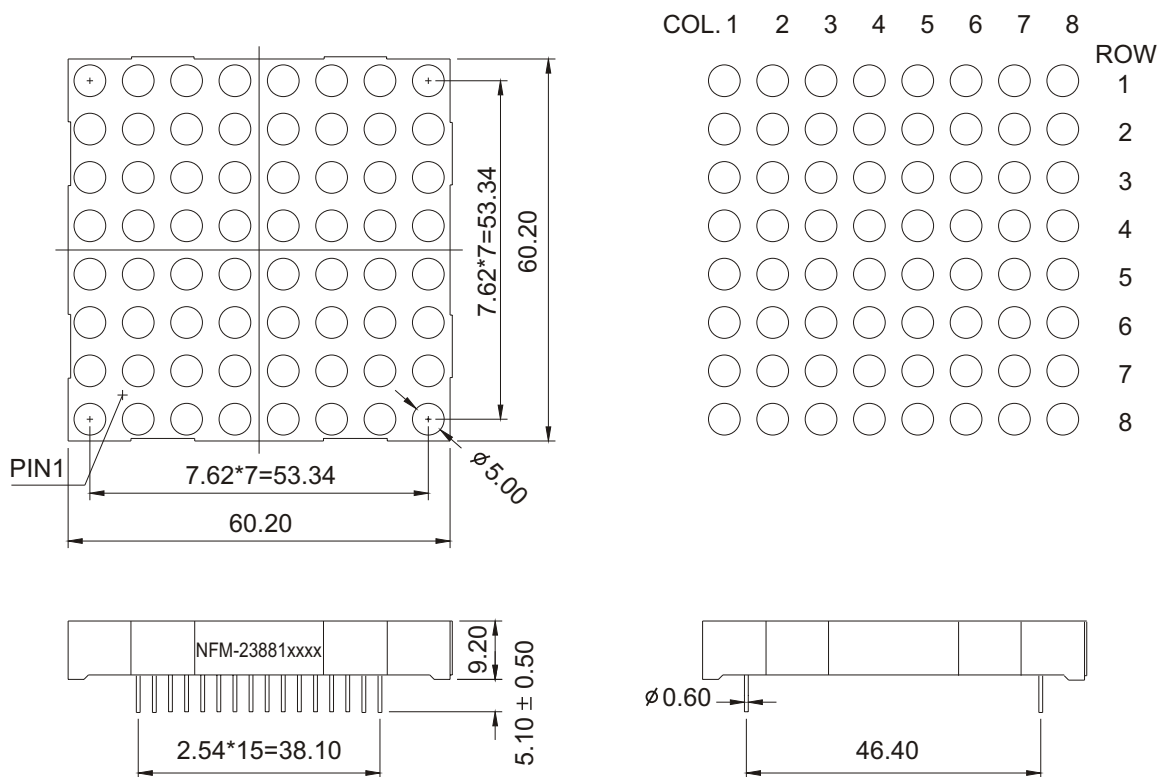
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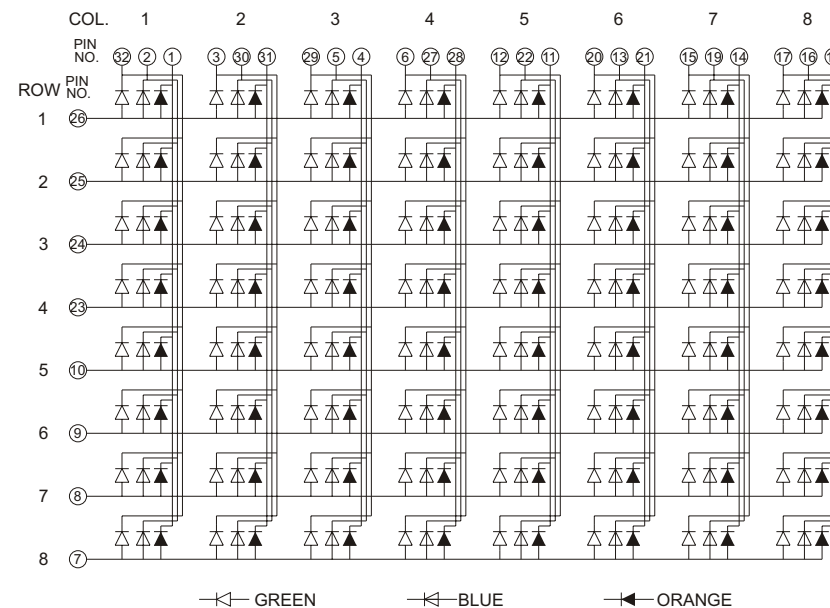
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

Row Anode
Column Cathode
NFM-23881BRGB



Tolerance ± 0.25 mm unless stated

Checked

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