



### 3.00" (79.80mm) $\Phi$ 7.62mm 5\*7 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<br>Row Cathode Column Anode | Part Number<br>Row Anode Column Cathode | Emitting Color           | Peak<br>Wavelength | Forward Voltage $V_F$ /Dot |      | Luminous Intensity $I_v$ /Dot |       |
|---|---|--------------------------|--------------------|----------------------------|------|-------------------------------|-------|
|   |   |                          |                    | Typ.                       | Max. | Min.                          | Typ.  |
| NFM-30571AS-11                          | NFM-30571BS-11                          | GaAlAs/GaAs SH Hi-Red    | 660                | 3.60                       | 4.40 | 16.00                         | 24.00 |
| NFM-30571AD-11                          | NFM-30571BD-11                          | GaAlAs/GaAs DH Super Red | 660                | 3.60                       | 4.40 | 44.00                         | 56.00 |
| NFM-30571AE-11                          | NFM-30571BE-11                          | GaAsP/GaP Orange         | 632                | 4.20                       | 5.00 | 16.00                         | 24.00 |
| NFM-30571AY-11                          | NFM-30571BY-11                          | GaAsP/GaP Yellow         | 585                | 4.20                       | 5.00 | 8.00                          | 14.00 |
| NFM-30571AG-11                          | NFM-30571BG-11                          | GaP/GaP Green            | 568                | 4.40                       | 5.00 | 14.00                         | 22.00 |
| Units                                   |   |                          | nm                 | V                          |      | mcd                           |       |

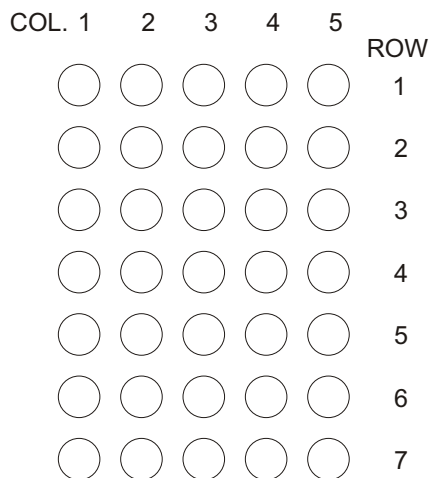
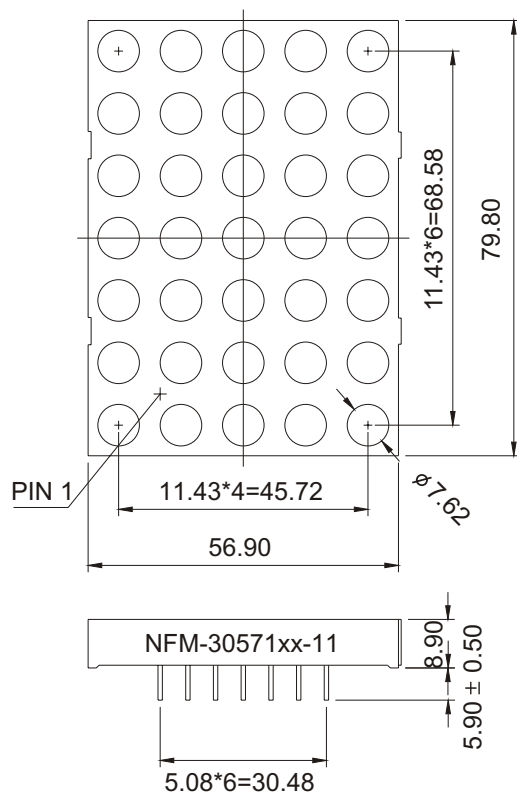
#### Maximum Ratings $T_a=25^\circ C$ (Derate above $25^\circ C$ )

| Characteristic                | Test Condition                     | Symbol    | S          | D     | E     | Y     | G     | Units      |
|-------------------------------|------------------------------------|-----------|------------|-------|-------|-------|-------|------------|
| Pulse Forward Current Per Dot | 1/10 duty cycle 0.1ms Pulse width  | $I_{FP}$  | 100        | 100   | 100   | 100   | 100   | mA         |
| DC Forward Current Per Dot    |                                    | $I_F$     | 25         | 25    | 30    | 30    | 30    | mA         |
| Reverse Current Per Dot       | $V_R=10V$                          | $I_R$     | 10         | 10    | 10    | 10    | 10    | $\mu A$    |
| Power Dissipation             |                                    | $P_D$     | 60*70      | 60*70 | 80*70 | 80*70 | 80*70 | 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        |       |       |       |       | $^\circ C$ |



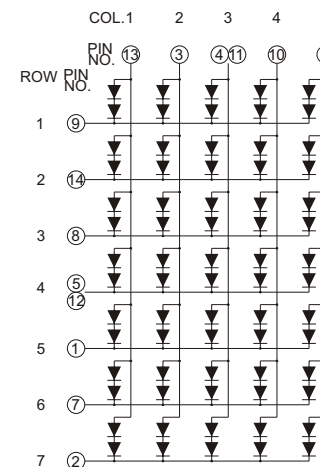
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#### PACKAGE DIMENSION

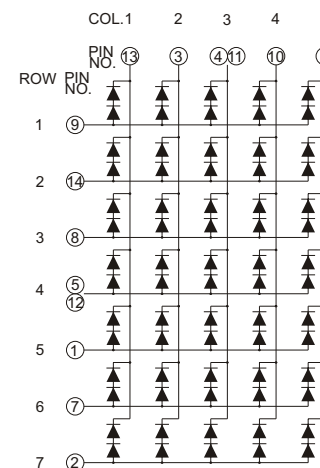


#### INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-30571Ax



Row Anode  
Column Cathode  
NFM-30571Bx



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