



### 4.00” (106.50mm) $\Phi$ 10.00mm 5\*7 Single Color Dot Matrix Displays

#### Features:

- \*Ultra 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 If=20mA Ta=25°C

Part Number Common Cathode	Part Number Common Anode	Emitting Color	Peak Wavelength	Forward Voltage Vf/Dot		Luminous Intensity Iv/Dot	
				Typ.	Max.	Min.	Typ.
NFM-40571AUHR-11	NFM-40571BUHR-11	AlGaInP/GaAs Ultra Red	640	4.00	5.00	80.00	120.00
NFM-40571AUE-11	NFM-40571BUE-11	AlGaInP/GaAs Ultra Orange	632	4.00	5.00	80.00	120.00
NFM-40571AYO-11	NFM-40571BYO-11	AlGaInP/GaAs Ultra Amber	605	4.00	5.00	80.00	120.00
NFM-40571AUY-11	NFM-40571BUY-11	AlGaInP/GaAs Ultra Yellow	590	4.00	5.00	80.00	120.00
NFM-40571AUG-11	NFM-40571BUG-11	AlGaInP/GaAs Ultra Green	574	4.10	5.00	50.00	80.00
NFM-40571APG-11	NFM-40571BPG-11	InGaN/SiC Pure Green	525	6.60	7.60	300.00	400.00
NFM-40571AUB-11	NFM-40571BUB-11	InGaN/SiC Ultra Blue	470	6.60	7.60	80.00	200.00
NFM-40571AUW-11	NFM-40571BUW-11	InGaN/SiC Ultra White	X-0.31/Y-0.31	6.60	7.60	400.00	1000.00
Units			nm	V		mcd	

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

Characteristic	Test Condition	Symbol	UHR	UE	YO	UY	UG	PG	UB	UW	Units
Pulse Forward Current Per Dot	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100	100	100	100	100	100	100	mA
DC Forward Current Per Dot		I <sub>F</sub>	30	30	30	30	30	30	30	30	mA
Reverse Current Per Dot	V <sub>R</sub> =10V	I <sub>R</sub>	10	10	10	10	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	65*70	65*70	65*70	65*70	75*70	110*70	120*70	120*70	mW
Operating Temperature		T <sub>OPR</sub>	-40 to +80								°C
Storage Temperature		T <sub>TSG</sub>	-40 to +85								°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260								°C

Checked

Chen N.H.

Approved

Jason Chen

Date

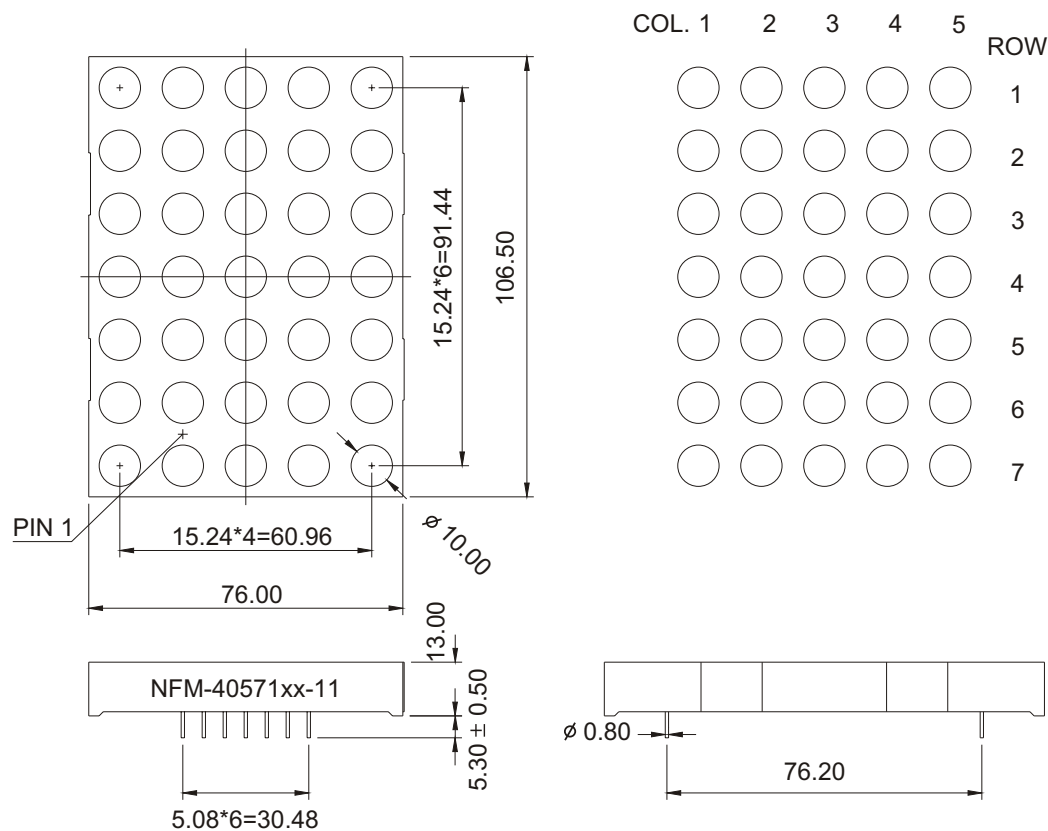
Mar/17/2007

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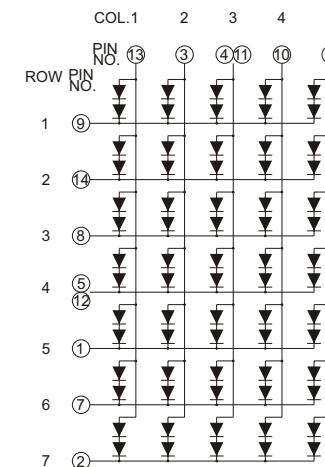
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### PACKAGE DIMENSION

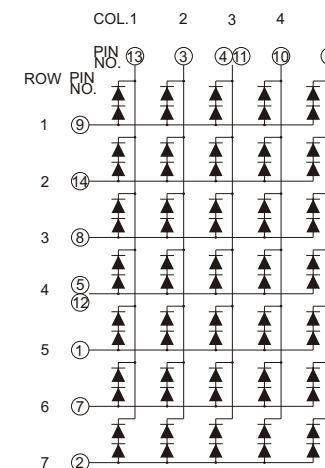


### INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-40571Ax



Row Anode  
Column Cathode  
NFM-40571Bx



Tolerance  $\pm 0.25$ mm unless stated