



### 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-40571CUR-11	NFM-40571DUR-11	AlGaInP/GaAs Ultra Red	640	6.00	7.50	120.00	180.00
NFM-40571CUE-11	NFM-40571DUE-11	AlGaInP/GaAs Ultra Orange	632	6.00	7.50	120.00	180.00
NFM-40571CYO-11	NFM-40571DYO-11	AlGaInP/GaAs Ultra Amber	605	6.00	7.50	120.00	180.00
NFM-40571CUY-11	NFM-40571DUY-11	AlGaInP/GaAs Ultra Yellow	590	6.00	7.50	120.00	180.00
NFM-40571CUG-11	NFM-40571DUG-11	AlGaInP/GaAs Ultra Green	574	6.30	7.50	75.00	120.00
NFM-40571CPG-11	NFM-40571DPG-11	InGaN/SiC Pure Green	525	6.60	7.60	450.00	600.00
NFM-40571CUB-11	NFM-40571DUB-11	InGaN/SiC Ultra Blue	470	6.60	7.60	120.00	300.00
NFM-40571CUW-11	NFM-40571DUW-11	InGaN/SiC Ultra White	X-0.31/Y-0.31	6.60	7.60	600.00	1500.00
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*105	65*105	65*105	65*105	75*105	110*105	120*105	120*105	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

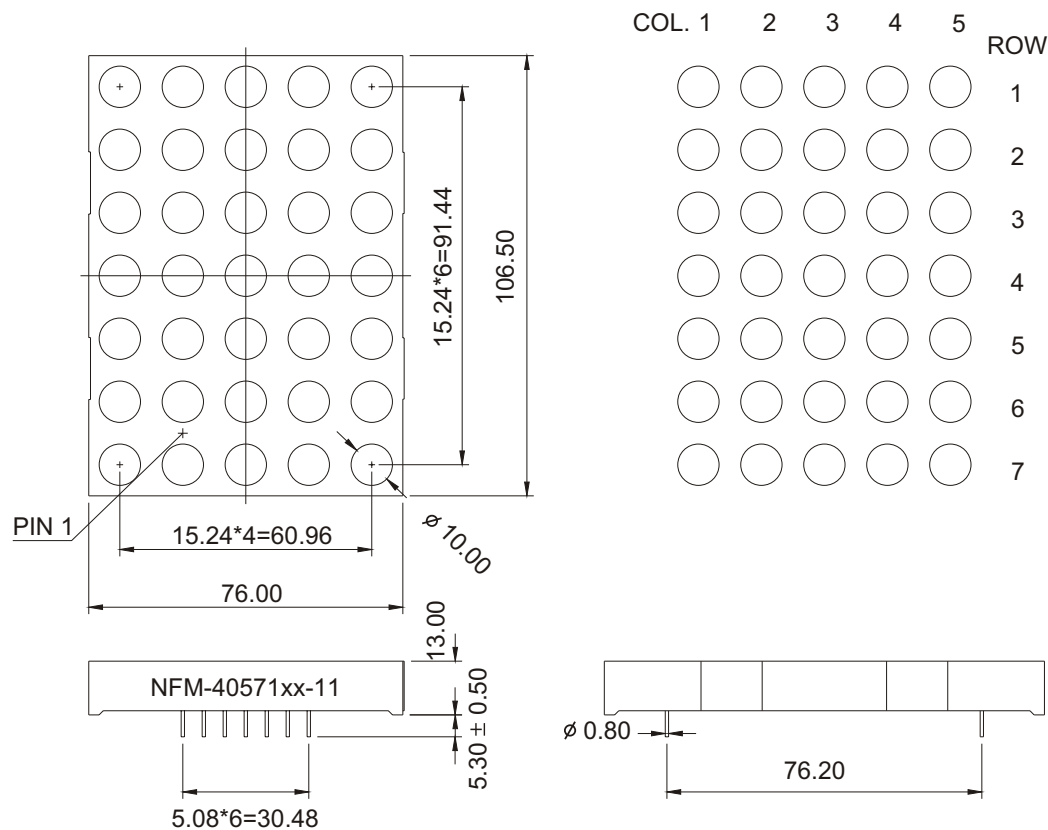
Mar/17/2007

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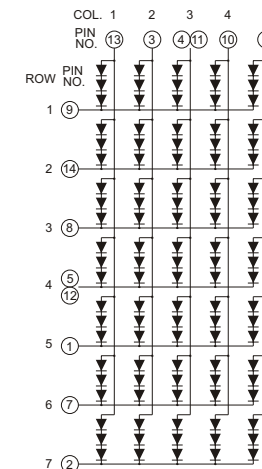
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PACKAGE DIMENSION

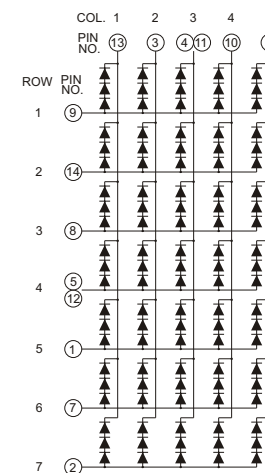


INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-40571Cx



Row Anode  
Column Cathode  
NFM-40571Dx



Tolerance  $\pm$ 0.25mm unless stated