



# PRODUCT SPECIFICATION

**Model No : CSM-57071M9/CSM-57081M9**

Descriptions:
<ul style="list-style-type: none"> <li>• 0.7Inch Dot-Matrix Display</li> <li>• 5*7 Array with X-Y Select.</li> <li>• CSM-57071: Column Anode, Row Cathode</li> <li>• CSM-57081: Column Cathode, Row Anode</li> <li>• Emitting Color: Super-Bright Green</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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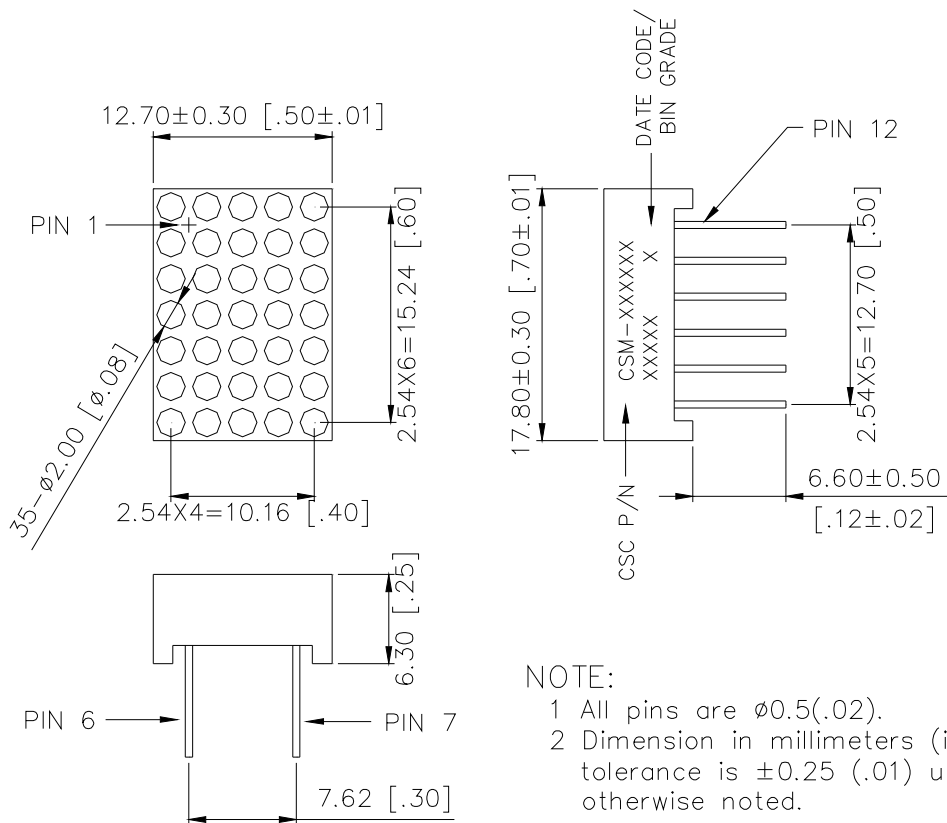
■ **Features -**

1. 0.7 inch (17.2mm) Matrix height.
2. Case mold type.
3. RoHs compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

■ **Device Selection Guide -**

Part No.	Chip		Description	
	Material	Emitted Color	Column	Row
CSM-57071M9	AlGaInP	Super-Bright Green	Anode	Cathode
CSM-57081M9			Cathode	Anode

■ **Package Dimensions -**



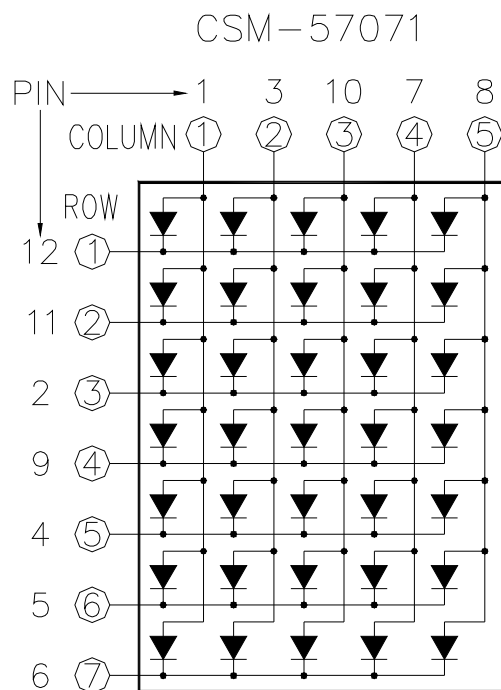
NOTE:

- 1 All pins are  $\phi 0.5$  (.02).
- 2 Dimension in millimeters (inch), tolerance is  $\pm 0.25$  (.01) unless otherwise noted.



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Internal Circuit Diagrams -



CSM-57071				CSM-57081			
PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Anode Column 1	7	Anode Column 4	1	Cathode Column 1	7	Cathode Column 4
2	Cathode Row 3	8	Anode Column 5	2	Anode Row 3	8	Cathode Column 5
3	Anode Column 2	9	Cathode Row 4	3	Cathode Column 2	9	Anode Row 4
4	Cathode Row 5	10	Anode Column 3	4	Anode Row 5	10	Cathode Column 3
5	Cathode Row 6	11	Cathode Row 2	5	Anode Row 6	11	Anode Row 2
6	Cathode Row 7	12	Cathode Row 1	6	Anode Row 7	12	Anode Row 1



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■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P <sub>AD</sub>	70	mW
Continuous Forward Current Per Dice	I <sub>AF</sub>	25	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I <sub>PF</sub>	90	mA
Derating Linear From 25°C Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	V <sub>R</sub>	5	V
Operating Temp.	T <sub>opr</sub>	-35 ~ +85	°C
Storage Temp.	T <sub>stg</sub>	-35 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V <sub>F</sub>	-	2.1	2.8	V	I <sub>F</sub> =20mA
Luminous Intensity Per Segment	I <sub>v</sub>	-	7400	-	ucd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λ <sub>p</sub>	-	570	-	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	-	572	-	nm	I <sub>F</sub> =20mA
Spectrum Radiation Bandwidth	Δλ	-	30	-	nm	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	-	-	100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>V-m</sub>	-	-	2:1	-	I <sub>p</sub> =80mA 1/16Duty



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■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

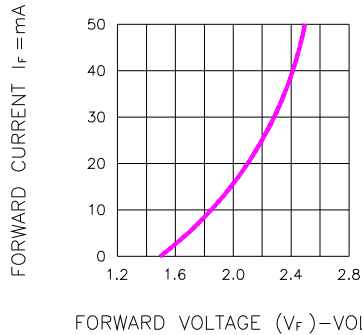


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

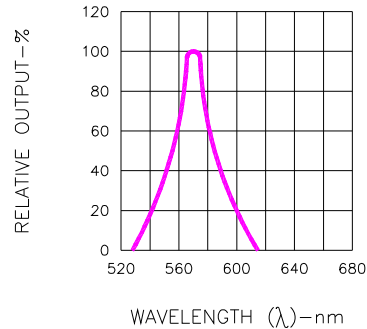


Fig.2 SPECTRAL RESPONSE

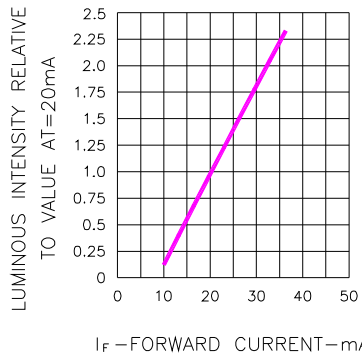


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

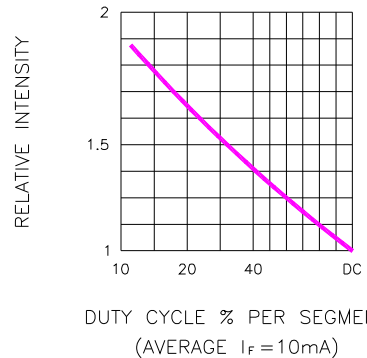


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

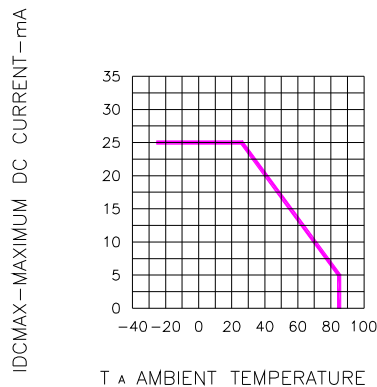


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

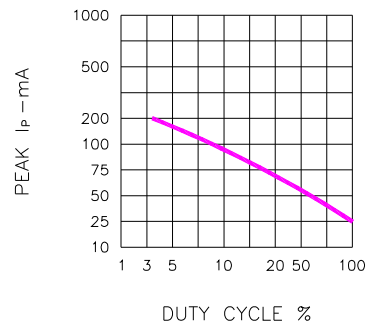


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)

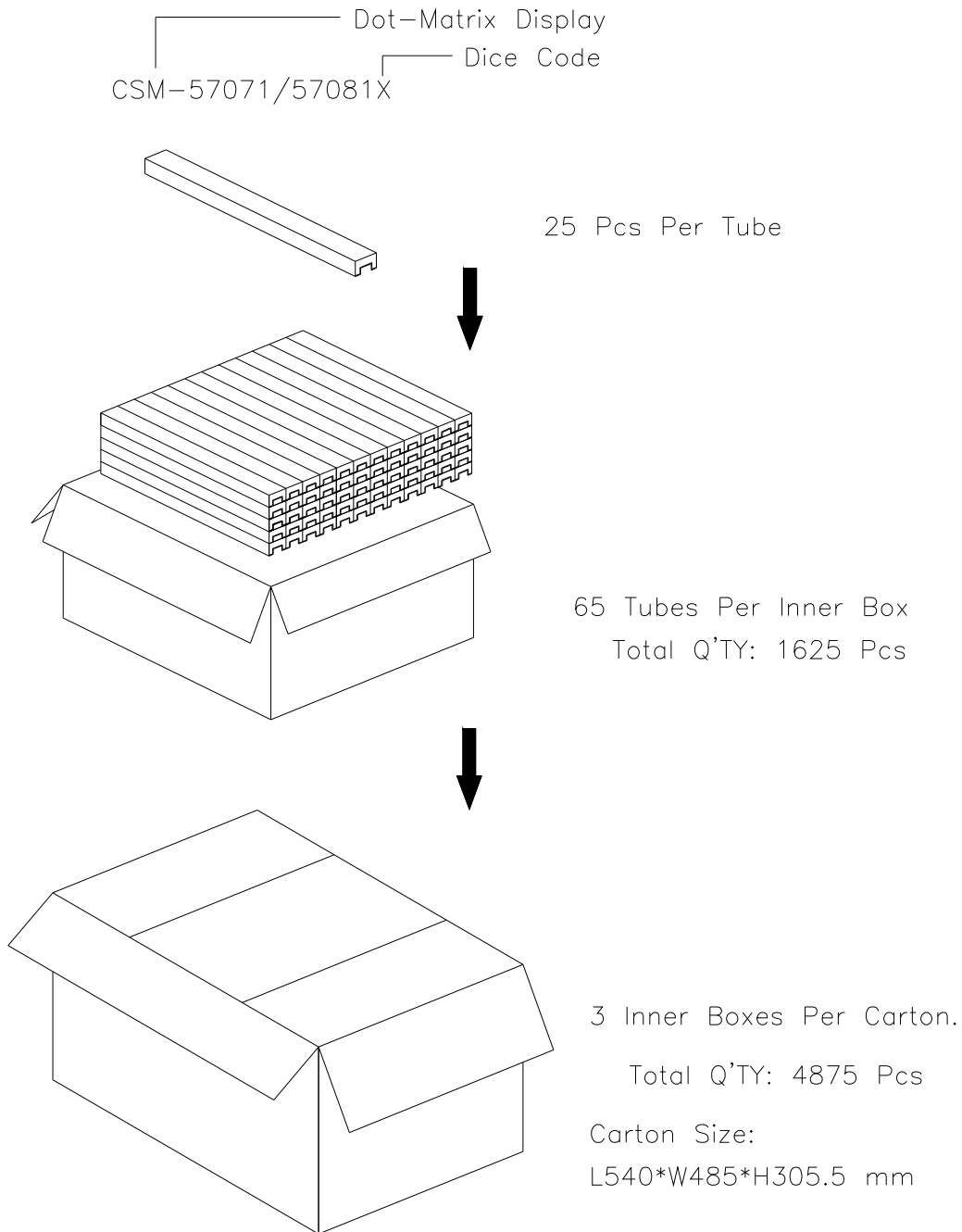


**CHINA  
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CORPORATION**

Spec. No.	PS-ND-0710
Rev.	A

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■ Package Dimensions



Note: The specifications are subject to change without notice. Please contact us for updated information