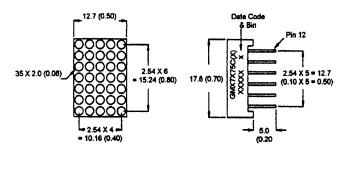
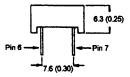


## Superbright Red GMX7275C Superbright Red GMX7275CA

## PACKAGE DIMENSIONS





#### NOTE: Dimensions are in mm (inch). Tolerances are $\pm$ 0.25 (0.1) unless otherwise noted. All pins are 0.5 (.02).

### DESCRIPTION

The GMX7275C(X) a 5 X 7, Superbright red dotmatrix display. Populated with GaAlAs/GaAs Single Hetero Junction LEDs, it has a grey face with white segment color.

## **FEATURES**

0.7" (17.2mm) character height.
Low power requirement.
Wide 130° viewing angle.
High brightness and contrast
5 X 7 array with X-Y select.
X-Y stackable.
Easy mounting on P.C. board.

## **MODEL NUMBERS**

Part NumberColourDescriptionGMA7275CAlGaAs RedCommon anode row.GMA7275CAAlGaAs RedCommon anode row, alternate pin-out.GMC7275CAlGaAs RedCommon cathode row.GMC7275CAAlGaAs RedCommon cathode row.GMC7275CAAlGaAs RedCommon cathode row, alternate pin-out.(For other color options, contact your local area Sales Office)Common cathode row.



**ABSOLUTE MAXIMUM RATING** (T<sub>A</sub> = 25°C unless otherwise specified)

Peak forward current per segment	Superbright Red 200	Units mA
(Duty cycle 1/10, 10KHz)		
Continous IF per segment	30	mA
Power dissipation per segment	100*	mW
*Derate linearly from 25°C	0.5	mW/°C
Reverse voltage VR per segment	5	Volts
Operating and storage temperature range		25°C to +85°C
Soldering time at 260°C		3 sec
(1/16" below seating plane)		

**ELECTRO - OPTICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

	Superbright Red	Test <u>Condition</u>
Luminous Intensity/Dot		
Digit average (Typical)	<b>5000ucd</b>	l <sub>F</sub> = 20 mA
Forward voltage (V <sub>F</sub> )		
typical	1.8V	i <sub>F</sub> = 20 mA
maximum	2.5V	l <sub>F</sub> = 20 mA
Peak wavelength (nm)	660nm	l <sub>F</sub> = 20 mA
Spectral line half width (nm)	20nm	I <sub>F</sub> = 20mA
Reverse breakdown voltage V <sub>R</sub>	5V	l <sub>R</sub> = 100uA



.

## **PIN CONNECTION:**

## GMX7X75C

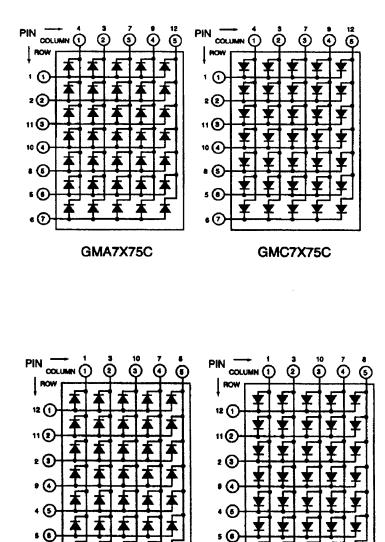
GMA7X75C		G	GMC7X75C	
Pin Number	Function	Pin Number	Function	
1	Anode Row 1	1	Cathode Row 1	
2	Anode Row 2	2	Cathode Row 2	
3	Cathode Column 2	3	Anode Column2	
4	Cathode Column 1	4	Anode Column 1	
5	Anode Row 6	5	Cathode Row 6	
6	Anode Row 7	6	Cathgode Row 7	
7	Cathode Column 3	7	Anode Column 3	
8	Anode Row 5	8	Cathode Row 5	
9	Cathode Column 4	9	Anode Column 4	
10	Anode Row 4	10	Cathode Row 4	
11	Anode Row 3	11	Cathode Row 3	
12	Cathode Column 5	12	Anode Column 5	

## GMX7X75CA

GMC7X75CA			GMA7X75CA	
Pin Number	Function	Pin Number	Function	
1	Anode Column 1	1	Cathode Column 1	
2	Cathode Row 3	2	Anode Row 3	
3	Anode Column 2	3	Cathode Column 2	
4	Cathode Row 5	4	Anode Row 5	
5	Cathode Row 6	5	Anode Row 6	
6	Cathode Row 7	6	Anode Row 7	
7	Anode Column 4	7	Cathode Column 3	
8	Anode Column 5	8	Cathode Column 5	
9	Cathode Row 4	9	Anode Row 4	
. 10	Anode Column 3	10	Cathode Column 3	
11	Cathode Row 2	11	Anode Row 2	
12	Cathode Row 1	12	Anode Row 1	



## SCHEMATICS:



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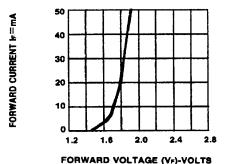
GMC7X75CA

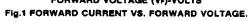
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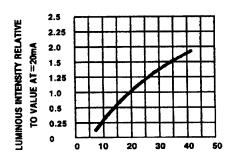
GMA7X75CA

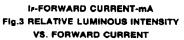


### GRAPHICAL DETAIL: AIGaAs Red (T<sub>A</sub> = 25°C unless otherwise specified)

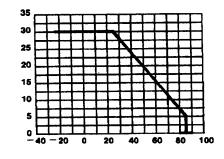




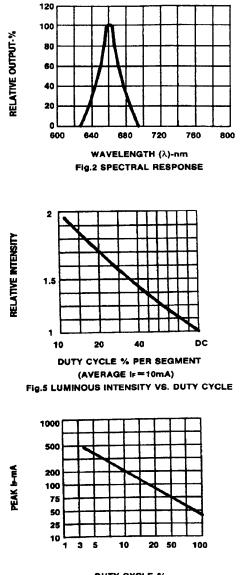




DCMAX-MAXIMUM DC CURRENT-mA











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- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.