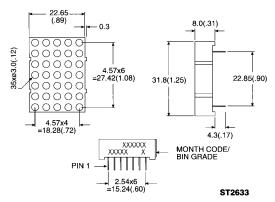


## 1.2'' 5 imes 7 DOT MATRIX DISPLAYS

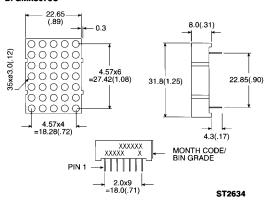
YELLOW GMA 8475C GMC 8475C HER GMA 8875C GMC 8875C GREEN GMA 8975C GMC 8975C BICOLOR- RED/GREEN GMA 8675C GMC 8675C

## PACKAGE DIMENSIONS

#### A. GMX8X75C



### B. GMX8675C



### NOTES:

- 1. ALL PINS ARE 00.5 (.02).
- DIMENSIONS IN MILLIMETER (INCH), TOLERANCE IS ±0.25 (.01) UNLESS OTHERWISE NOTED.

### **DESCRIPTION**

The GMX8X75C series are 1.2" (30 mm) matrix height 5  $\times$  7 dot matrix displays. All these parts are available in gray face and white dot color.

The X in GMX denotes row anode or row cathode.

### **FEATURES**

- 1.2" (30 mm) matrix height
- Choice of 3 colors green, yellow & HER and bicolor — red/green
- Low power consumption
- 5 × 7 array with X-Y select
- Stackable horizontally
- Choice of 2 matrix orientation cathode column or anode column
- Easy mounting or PCB on sockets
- Categorized for luminous intensity
- Multicolor color displays are applicable to 3 bright colors — green, orange (HER) and yellow (green and HER mixed)

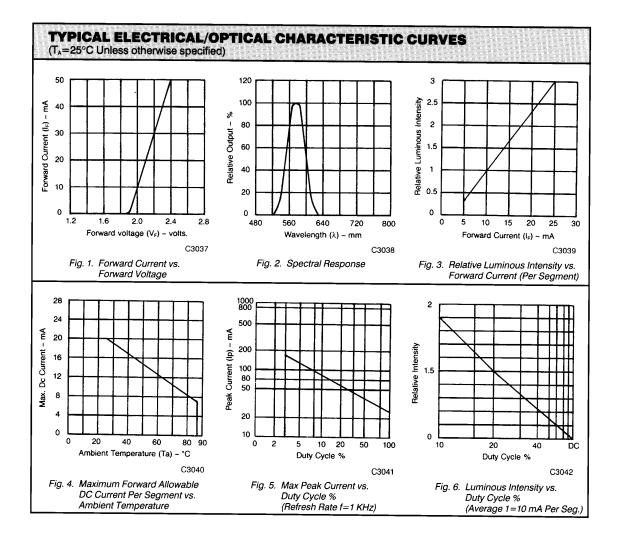


# $\textbf{1.2''}\,\textbf{5}\times\textbf{7}$ DOT MATRIX DISPLAYS

PARAMETER	YELLOW	HER	GREEN	UNITS
Power dissipation per dotPower dissipation per dot	60	70	75	mW
(Duty cycle 1/10, 10KHz)	80	100	100	mA
Continuous I <sub>F</sub> per dot	20	5	25	mA
Reverse voltage per dot	5	5	5	v

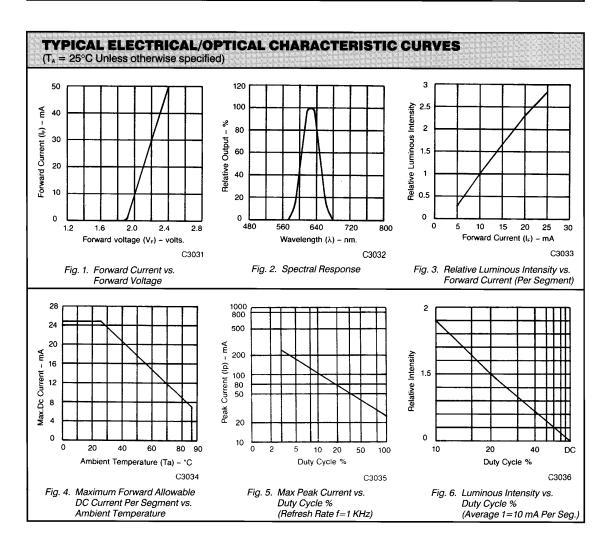
MODE	NUMBE	RS TNO.				
YELLOW	HER	GREEN	MULTI- COLOR	DESCRIPTION	PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM
GMC8475C GMA8475C	GMC8875C GMA8875C	GMC8975C GMA8975C	GMA8675C GMC8675C	Anode column, cathode row Cathode column, anode row Cathode column, anode row Anode column, cathode row	A A B B	A B C

ELECTRICAL/OPTICAL CH GMX8475C (YELLOW)	ICAL/OPTICAL CHARACTERISTICS (T <sub>A</sub> = 25°C Unless otherwise specified) 5C (YELLOW)				
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I <sub>F</sub> =20 mA
Peak emission wavelength		585		nm	I <sub>F</sub> =20 mA
Spectral line half-width		35		nm	I <sub>F</sub> =20 mA
Forward voltage, any dot		2.1	2.8	٧	I <sub>F</sub> =20 mA
Reverse voltage, any dot		,	100	μΑ	V <sub>R</sub> =5 V



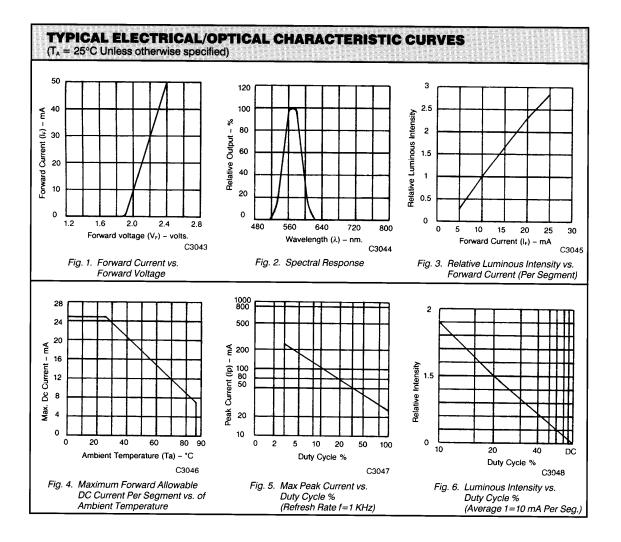
# $\textbf{1.2''}~\textbf{5}\times\textbf{7}\\ \textbf{DOT MATRIX DISPLAYS}$

ELECTRICAL/OPTICAL CH GMX8875C (HER)	CTRICAL/OPTICAL CHARACTERISTICS (T <sub>A</sub> = 25°C Unless otherwise specified) (8875C (HER)				pecified)
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I <sub>F</sub> =20 mA
Peak emission wavelength		635		nm	I <sub>F</sub> =20 mA
Spectral line half-width		30		nm	I <sub>F</sub> =20 mA
Forward voltage, any dot		2.1	2.8	٧	I <sub>F</sub> =20 mA
Reverse voltage, any dot	·		100	μΑ	V <sub>R</sub> =5 V



# $1.2^{\prime\prime}$ 5 imes 7 DOT MATRIX DISPLAYS

ELECTRICAL/OPTICAL CHA GMX8975C (GREEN)	OPTICAL CHARACTERISTICS (T <sub>A</sub> = 25°C Unless otherwise specified) IREEN)				
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I <sub>F</sub> =20 mA
Peak emission wavelength		565		nm	I <sub>F</sub> =20 mA
Spectral line half-width		30		nm	I <sub>F</sub> =20 mA
Forward voltage, any dot		2.1	2.8	V	I <sub>F</sub> =20 mA
Reverse voltage, any dot			100	μΑ	V <sub>R</sub> =5 V



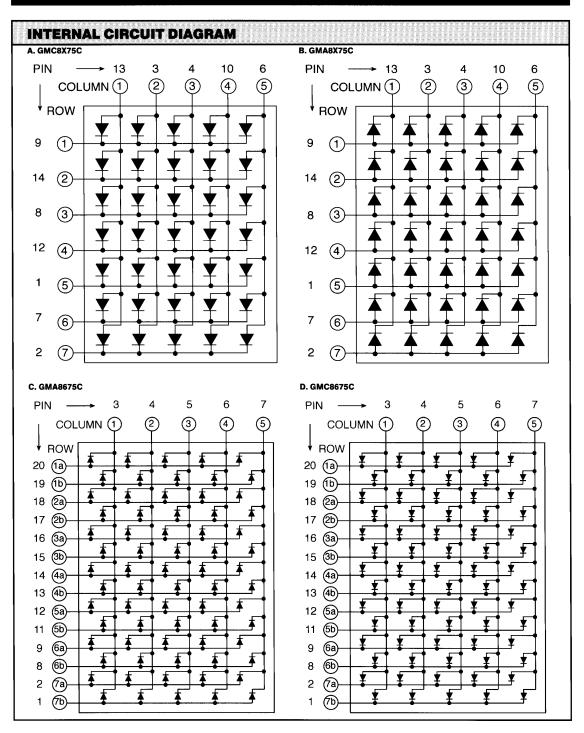


# $\textbf{1.2"\,5}\times\textbf{7}$ DOT MATRIX DISPLAYS

PIN NO.	GMA8X75C	GMC8X75C	GMC8675C	GMA8675C
1	Anode row 5	Cathode row 5	Cathode row 7 green	Anode row 7 green
2	Anode row 7	Cathode row 7	Cathode row 7 HER	Anode row 7 HER
3	Cathode column 2	Anode column 2	Anode column 1	Cathode column 1
4	Cathode column 3	Anode column 3	Anode column 2	Cathode column 2
5	Anode row 4	Cathode row 4	Anode column 3	Cathode column 3
6	Cathode column 5	Anode column 5	Anode column 4	Cathode column 4
7	Anode row 6	Cathode row 6	Anode column 5	Cathode column 5
8	Anode row 3	Cathode row 3	Cathode row 6 green	Anode row 6 green
9	Anode row 1	Cathode row 1	Cathode row 6 HER	Anode row 6 HER
10	Cathode column 4	Anode column 4	No connection	No connection
11	Cathode column 3	Anode column 3	Cathode row 5 green	Anode row 5 green
12	Anode row 4	Cathode row 4	Cathode row 5 HER	Anode row 5 HER
13	Cathode column 1	Anode column 1	Cathode row 4 green	Anode row 4 green
14	Anode row 2	Cathode row 2	Cathode row 4 HER	Anode row 4 HER
15			Cathode row 3 green	Anode row 3 green
16			Cathode row 3 HER	Anode row 3 HER
17			Cathode row 2 green	Anode row 2 green
18			Cathode row 2 HER	Anode row 2 HER
19			Cathode row 1 green	Anode row 1 green
20			Cathode row 1 HER	Anode row 1 HER









## 1.2" 5 X 7 DOT MATRIX DISPLAYS

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- 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.