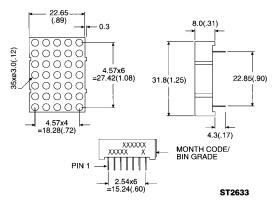


# 1.2'' 5 imes 7 DOT MATRIX DISPLAYS

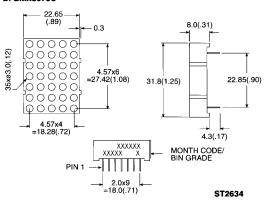
YELLOW GMA 8475C GMC 8475C HER GMA 8875C GMC 8875C GREEN GMA 8975C GMC 8975C BICOLOR- RED/GREEN GMA 8675C GMC 8675C

## 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)

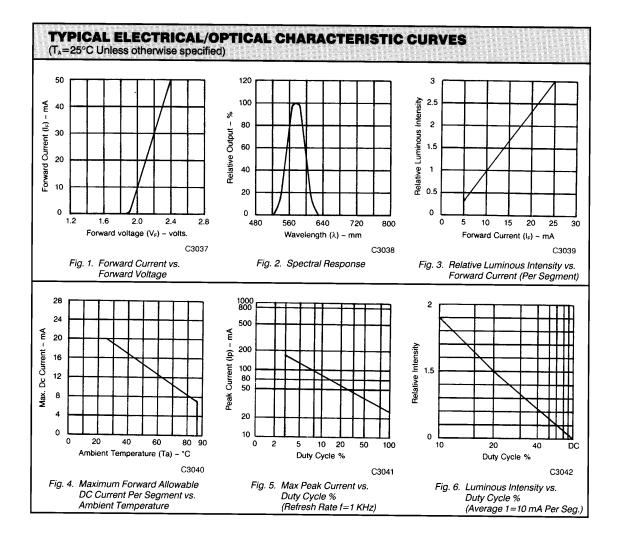


# $\textbf{1.2''}\,\textbf{5}\times\textbf{7}$ DOT MATRIX DISPLAYS

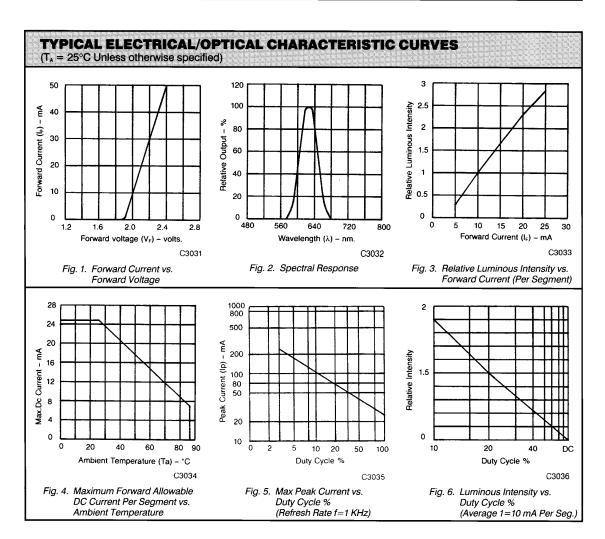
PARAMETER	YELLOW	HER	GREEN	UNITS
Power dissipation per dotPeak forward current per dot	60	70	75	mW
(Duty cycle 1/10, 10KHz)	80	100	100	mA
Continuous I <sub>F</sub> per dot	20	5	25	mA
Reverse voltage per dot	5	5	5	v

	PAR	T NO.				INTERNAL
YELLOW	HER	GREEN	MULTI- COLOR	DESCRIPTION	PACKAGE DIMENSION	CIRCUIT
GMC8475C GMA8475C	GMC8875C	GMC8975C		Anode column, cathode row	A	A
GIVIA0475C	GMA8875C	GMA8975C	0	Cathode column, anode row	Α	В
			GMA8675C	Cathode column, anode row	В	С
			GMC8675C	Anode column, cathode row	В	Ď

ELECTRICAL/OPTICAL CH GMX8475C (YELLOW)	IARACTERISTIC	ARACTERISTICS (T <sub>A</sub> = 25°C Unless otherwise specified)			
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

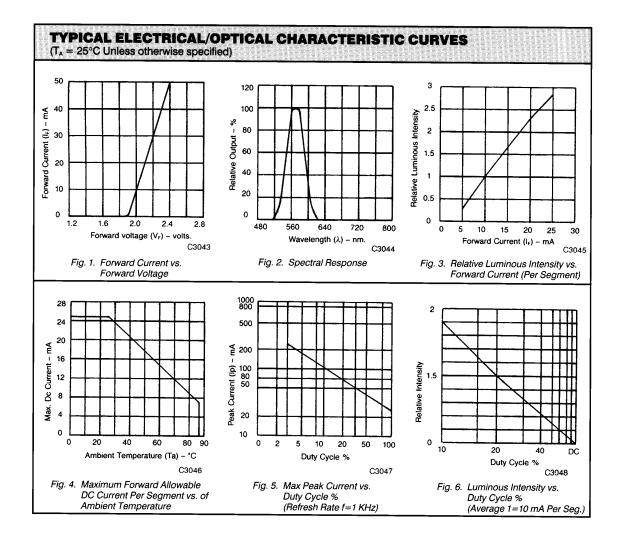


ELECTRICAL/OPTICAL CH GMX8875C (HER)	<b>IARACTERISTICS</b> (T <sub>A</sub> = 25°C Unless otherwise specified)		pecified)		
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I <sub>F</sub> =20 mA
Peak emission wavelength		635		nm	I <sub>F</sub> =20 mA
Spectral line half-width		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)	RACTERISTIC	<b>S</b> (T, = 25	°C Unless	otherwise s	pecified)
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



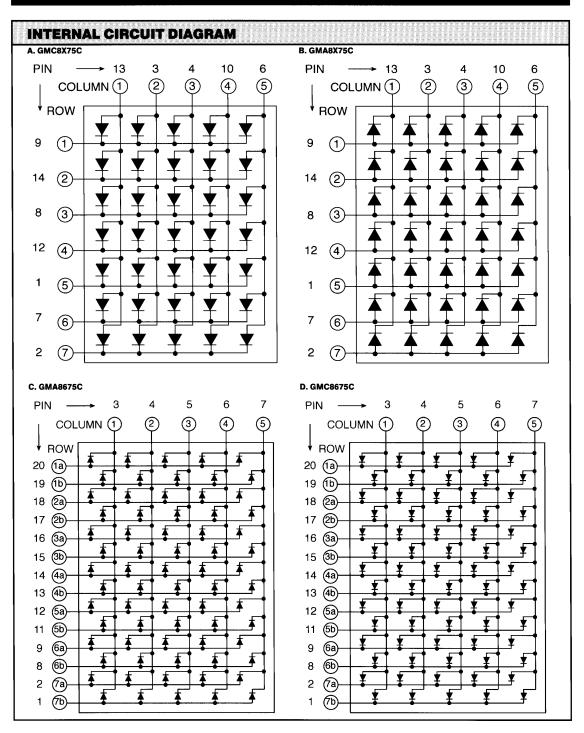


# $\textbf{1.2"\,5}\times\textbf{7}$ DOT MATRIX DISPLAYS

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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