



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-200-009 REV: 1.1

2.0" 5*7 Dot Matrix Displays

MODEL NO : ELM-2001EWB/P17 ECN : Page: 1/5

■ Features :

- Large emitting dot 0.2" diameter.
- Low power/high brightness.

■ Applications:

- Instrument panels
- Digital read out display

■ Descriptions :

- The ELM-2001 series are a large emitting area(5.0mm diameter)LED sources configured in a 35 dots 5*7 matrix array.
- These device is made with white dots and black surface.

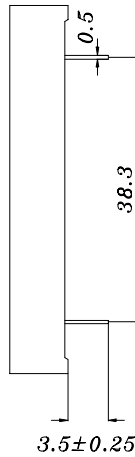
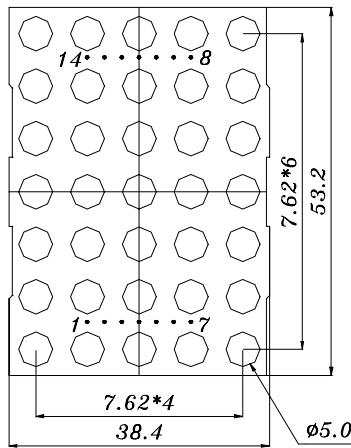
PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELM-2001EWB/P17	GaAsP/GaP	Orange	C.C.

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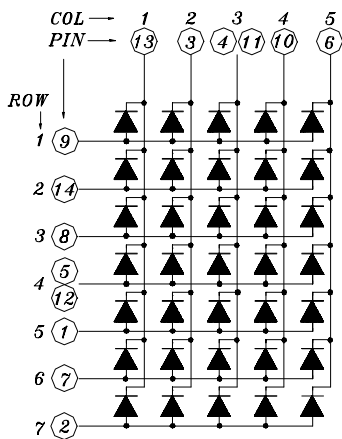
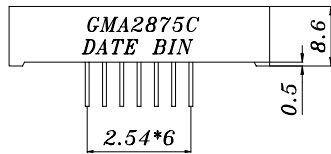


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■ Package Dimensions:



- CATHODE COLUMN
- ANODE ROW
- 1 ANODE ROW 5
- 2 ANODE ROW 7
- 3 CATHODE COLUMN 2
- 4 CATHODE COLUMN 3
- 5 ANODE ROW 4
- 6 CATHODE COLUMN 5
- 7 ANODE ROW 6
- 8 ANODE ROW 3
- 9 ANODE ROW 1
- 10 CATHODE COLUMN 4
- 11 CATHODE COLUMN 3
- 12 ANODE ROW 4
- 13 CATHODE COLUMN 1
- 14 ANODE ROW 2



■ NOTES:

- 1.All dimensions are in millimeters, tolerance is 0.25mm unless otherwise noted.
 - 2.Above specification may be changed without notice.
- Supplier will reserve authority on material change for above specification.

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MODEL NO : ELM-2001EWB/P17 ECN : _____ Page: 3/5**■ Absolute maximum ratings at Ta = 25°C :**

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA

■ Electronic optical characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Iv	2.8	4.5	----	mcd	If=10mA
Peak Wavelength	λ_p	----	635	----	nm	If=20mA
Dominant Wavelength	λ_d	----	625	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\Delta\lambda$	----	45	----	nm	If=20mA
Forward Voltage	Vf	1.7	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μA	Vr=5V



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■ Reliability test item and condition:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min } 5 min L : -55°C 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min } 10 sec L : -10°C 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	If = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1





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