



Device Number : DDD-406-003 REV: 1.0

0.4" Dual Digit Display

MODEL NO : ELD-406HWB ECN : Page: 1/5

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELD-406 series is a large 10.16mm (0.4")high seven segment display designed for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light.
- These devices are made with white segments and black surface.

PART NO	Chip	
	Material	Emitted Color
ELD-406HWB	GaP	Bright Red

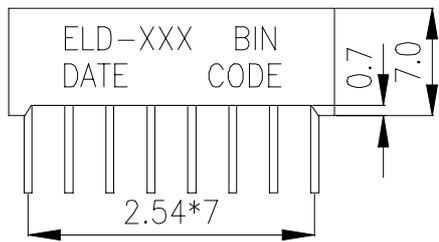
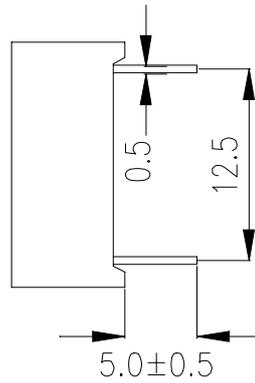
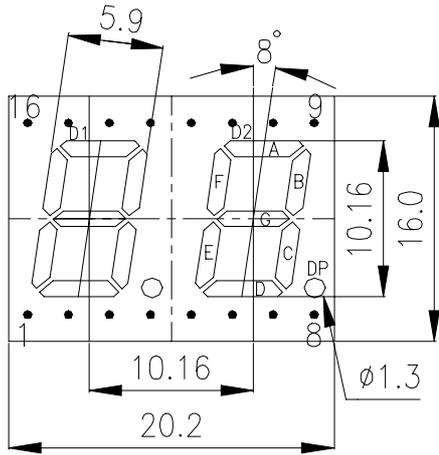
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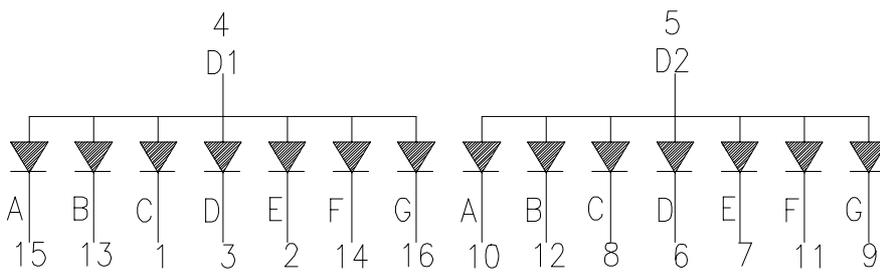
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Package Dimensions:



COMMON ANODE

- 1 CATHODE 1C
- 2 CATHODE 1E
- 3 CATHODE 1D
- 4 COMMON ANODE D1
- 5 COMMON ANODE D2
- 6 CATHODE 2D
- 7 CATHODE 2E
- 8 CATHODE 2C
- 9 CATHODE 2G
- 10 CATHODE 2A
- 11 CATHODE 2F
- 12 CATHODE 2B
- 13 CATHODE 1B
- 14 CATHODE 1F
- 15 CATHODE 1A
- 16 CATHODE 1G



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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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	15	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	45	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	50	mA

■ Electronic optical characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.18	0.3	----	mcd	IF=10mA
Peak Wavelength	λ p	----	697	----	nm	IF=10mA
Dominant Wavelength	λ d	----	650	----	nm	IF=10mA
Spectrum Radiation Bandwidth	△ λ	----	90	----	nm	IF=10mA
Forward Voltage	VF	1.5	2.0	2.4	V	IF=10mA
Reverse Current	IR	----	----	10	μ A	VR=5V



EVERLIGHT ELECTRONICS CO.,LTD.

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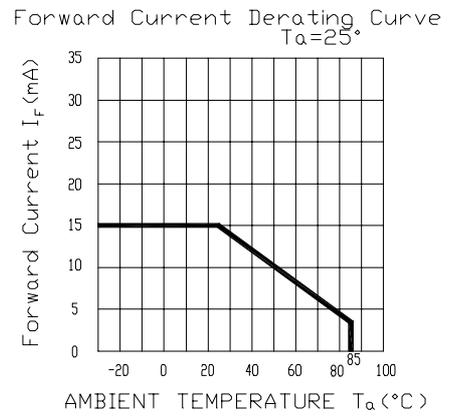
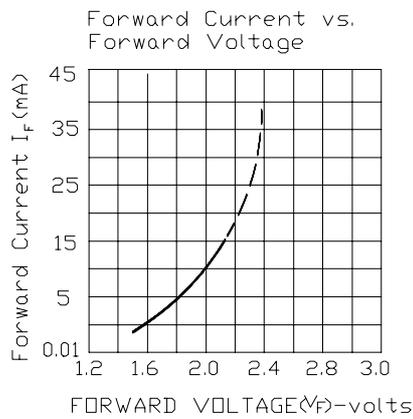
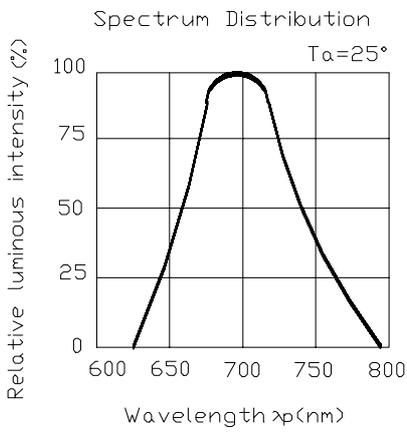
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Typical Electro-Optical Characteristic Curves:





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■ Reliability test items and conditions:

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