



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDD-305-008 REV: 1

## 0.3" Dual Digit Displays

PART NO. : ELD-305HWA 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-305 series is a large 7.62 mm (0.3")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 gray surface.

PART NO.	Chip	
	Material	Emitted Color
ELD-305HWA	GaP	Bright Red

OFFICE : 7c Building ,Lian Hua Port Industrial District, Lian Hua Shan Bonded Pricessing  
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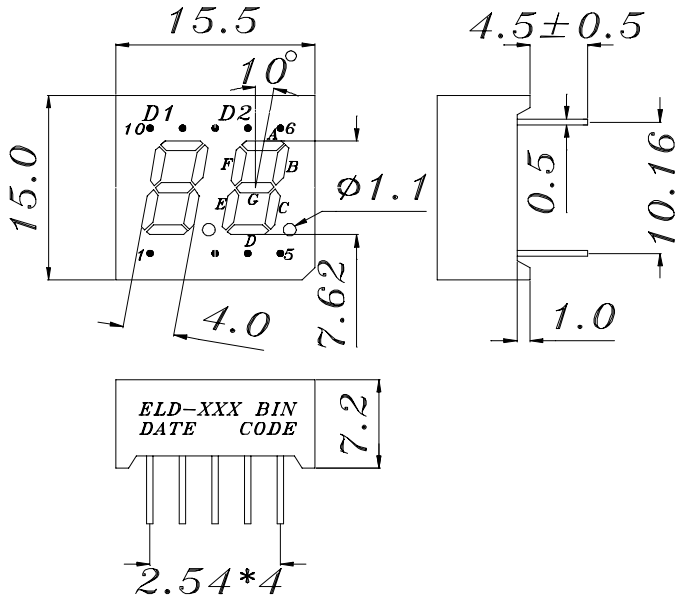
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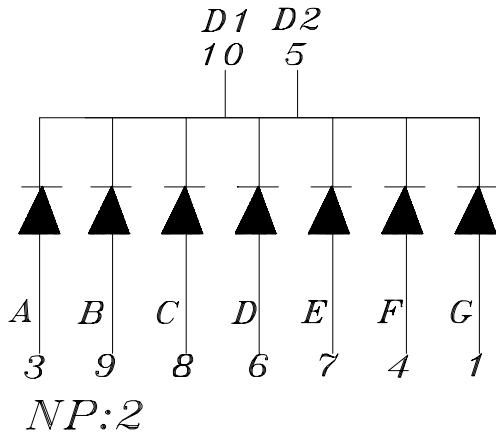


0.3" Dual Digit Displays

Package Dimensions:



- COMMON CATHODE*
- 1 ANODE G
  - 2 NO PIN
  - 3 ANODE A
  - 4 ANODE F
  - 5 COMMON CATHODE D2
  - 6 ANODE D
  - 7 ANODE E
  - 8 ANODE C
  - 9 ANODE B
  - 10 COMMON CATHODE D1



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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PART NO. :       ELD-305HWA       ECN :                                  Page:       3/5      **■ 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	Per segment	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



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■ Typical Electro-Optical Characteristic Curves:

CHIP Material:Gap  
Emitted Color:Bright Red

Spectrum Distribution  
 $T_a=25^\circ$

Wavelength $\lambda_p$ (nm)	Relative luminous intensity (%)
600	0
650	50
700	100
750	50
800	0

Forward Current vs. Forward Voltage

FORWARD VOLTAGE(VF)-volts	Forward Current $I_f$ (mA)
1.6	0
2.0	10
2.4	45

Forward Current Derating Curve

AMBIENT TEMPERATURE $T_A$ (°C)	Forward Current $I_f$ (mA)
0	15
25	15
85	0



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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