



0.4" Dual Digit Displays

MODEL NO : ELD-406EWB 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-406EWB	GaAsP/GaP	Orange

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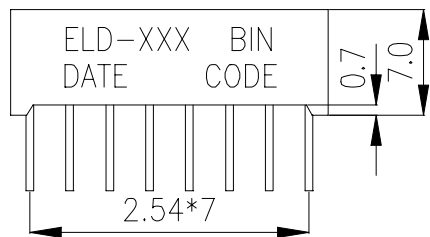
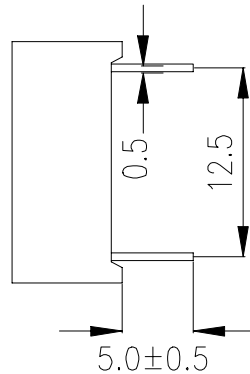
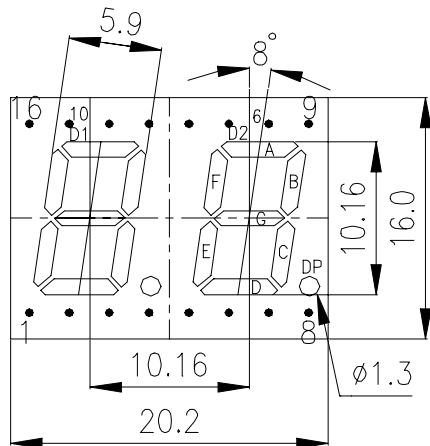
<http://www.everlight.com>



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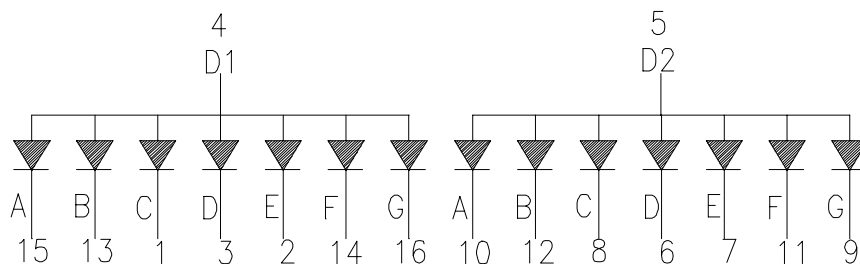
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■ Package Dimensions:



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.



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-406-007 REV: 1.1

0.4" Dual Digit Displays

MODEL NO : ELD-406EWB 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	Per segment	Iv	1.05	1.9	----	mcd	If=10mA
	Per decimal point		----	----	----		
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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Device Number : DDD-406-007 REV: 1.1

0.4" Dual Digit Displays

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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



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Typical Electro-Optical Characteristic Curves:

