



0.3" Quadruple Digit Displays

PART NO. : ELF-3D6EWB 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 ELF-3D6 series is a large 7.6 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 black surface.

PART NO.	Chip	
	Material	Emitted Color
ELF-3D6EWB	GaAsP/GaP	Orange

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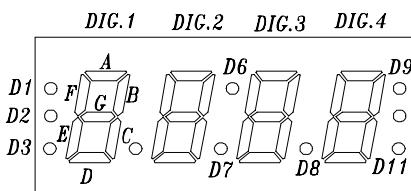
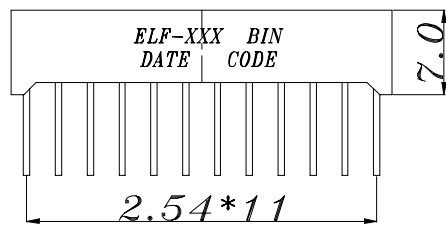


REV: 1

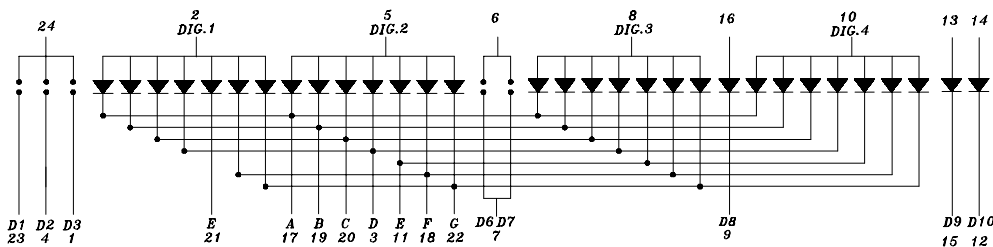
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Technical drawing of a rectangular plate with four rectangular slots. The top view shows a plate with overall dimensions 30.4 (width) and 13.2 (height). The slots are arranged in a row, with a center-to-center distance of 6.8 * 3 = 20.4. The distance from the left edge to the first slot center is 2.4, and from the last slot center to the right edge is 1.3. The slot width is 3.8, and the distance between the slot walls and the plate edges is 1.0. The plate has a thickness of 7.6. The cross-section view shows a plate with a thickness of 6.7 ± 0.5, a slot width of 0.51, and a slot depth of 10.16. The plate has a width of 1.0.



- 1 NO CONNECT
- 2 COMMON ANODE DIG.1
- 3 CATHODE D
- 4 NO CONNECT
- 5 COMMON ANODE DIG.2
- 6 NO CONNECT
- 7 NO CONNECT
- 8 COMMON ANODE DIG.3
- 9 CATHODE D8
- 10 COMMON ANODE DIG.4
- 11 CATHODE E
- 12 CATHODE D11
- 13 ANODE D9
- 14 ANODE D11
- 15 CATHODE D9
- 16 ANODE D8
- 17 CATHODE A
- 18 CATHODE F
- 19 CATHODE B
- 20 CATHODE C
- 21 CATHODE DIG.1 E
- 22 CATHODE G
- 23 NO CONNECT
- 24 NO CONNECT



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 : CDDF-3D6-001 REV: 1

0.3" Quadruple Digit Displays

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■ 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	0.45	0.60	----	mcd	IF=10mA
	Per decimal point		0.10	0.20	----		
Peak Wavelength		λ p	----	635	----	nm	IF=20mA
Dominant Wavelength		λ d	----	625	----	nm	IF=20mA
Spectrum Radiation	Bandwidth	△ λ	----	45	----	nm	IF=20mA
Forward Voltage		VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V



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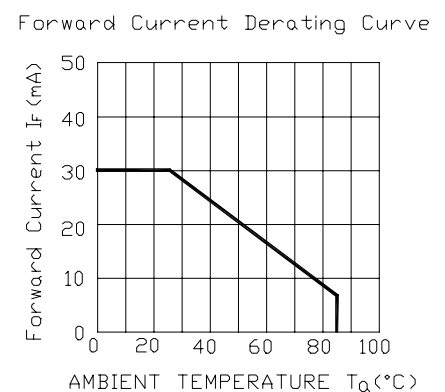
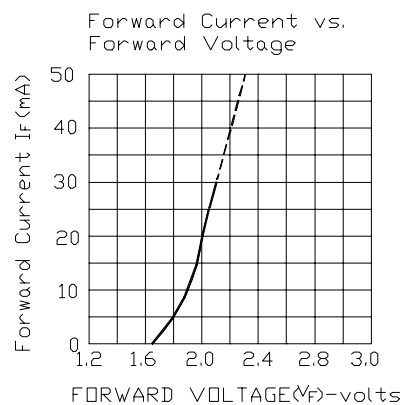
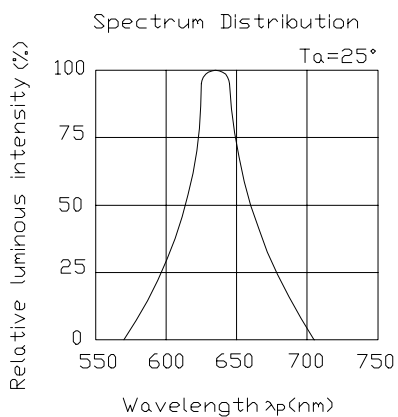
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ECN :

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Typical Electro-Optical Characteristic Curves:

CHIP Material:GaAsP/GaP
Emitted Color:Hi-Eff Red/Orange





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PART NO. : ELF-3D6EWB ECN : Page: 5/5

Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min └ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min └ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃ /85% RH	1000 HRS	76 PCS	0/1