



0.4" Quadruple Digit Displays

PART NO. : ELF-4I6GWB/S338 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-4I6 series is a large 10.2 mm (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
ELF-4I6GWB/S338	GaAsP/GaP(E)	Orange
	GaP(G)	Green

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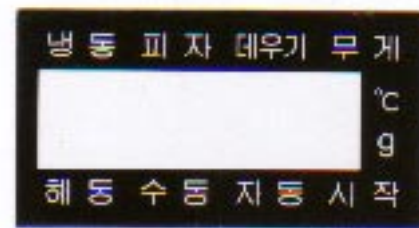
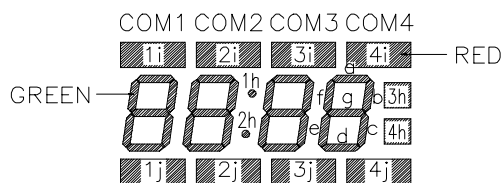
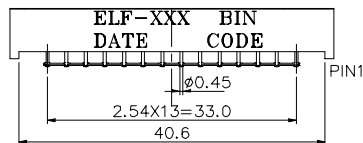
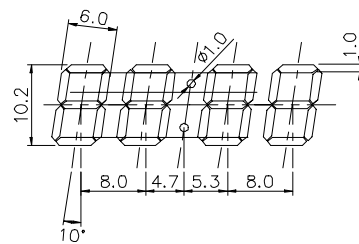
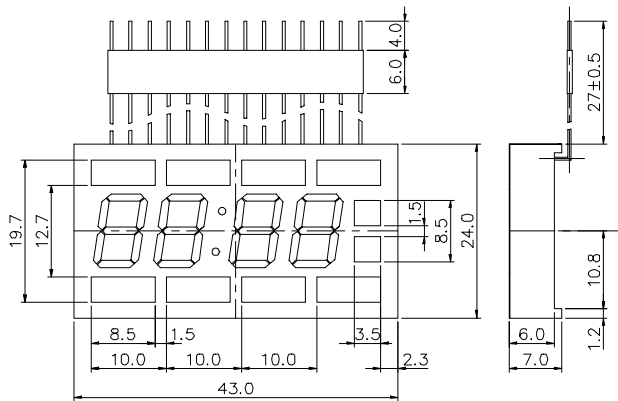
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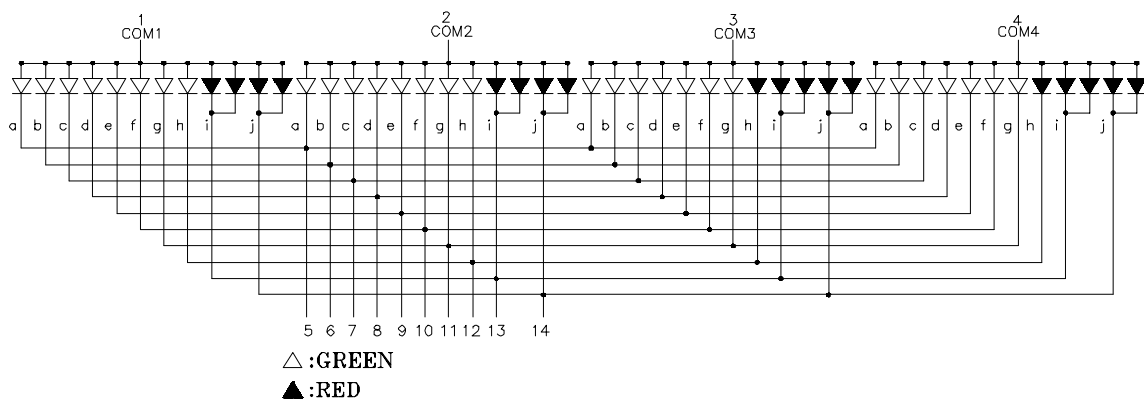
0.4" Quadruple Digit Displays

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■ Package Dimensions:



TAPE: 1.5 : 1



■ 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 : CDDF-4I6-001 REV: 2

0.4" 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 (E)	30	mA
	IF(G)	30	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd (E)	100	mW
	Pd(G)	100	
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(G)	1.05	1.68	----	mcd	IF=10mA
	Per decimal point		0.3	0.6	----		
Peak Wavelength		λ p(E)		635		nm	IF=20mA
		λ p(G)	----	565	----		
Dominant Wavelength		λ d(E)	----	625	----	nm	IF=20mA
		λ d(G)	----	570	----		
Spectrum Radiation Bandwidth		△ λ (E)	----	45	----	nm	IF=20mA
		△ λ (G)	----	30	----		
Forward Voltage		VF(E)	1.7	2.0	2.4	V	IF=20mA
		VF(G)	1.7	2.1	2.4		
Reverse Current		IR	----	----	10	μ A	VR=5V

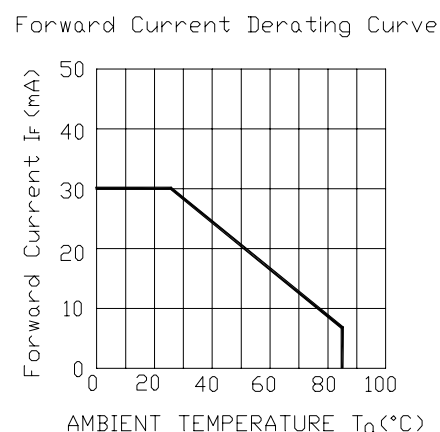
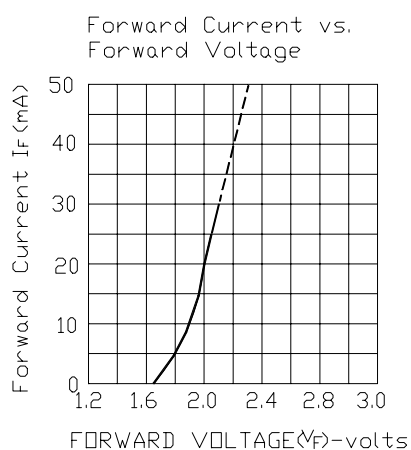
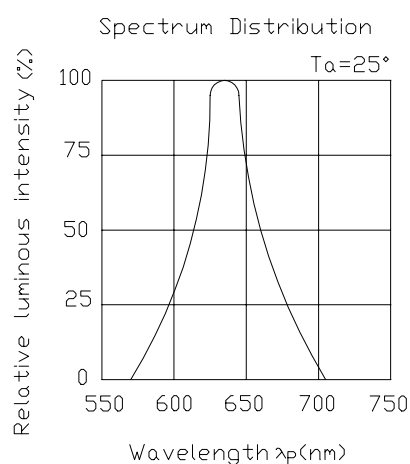


0.4" Quadruple Digit Displays

PART NO. : ELF-4I6GWB/S338ECN : Page: 4/5**Typical Electro-Optical Characteristic Curves:**

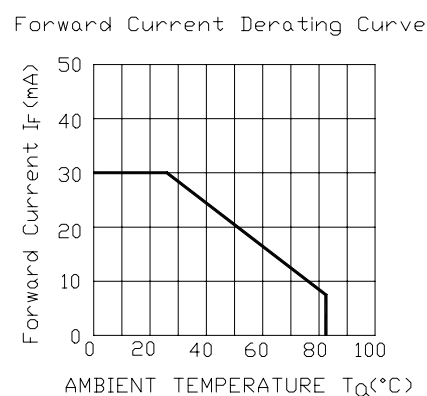
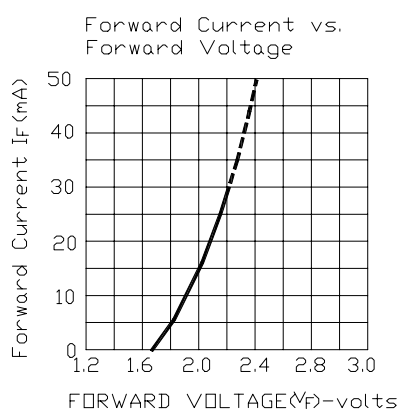
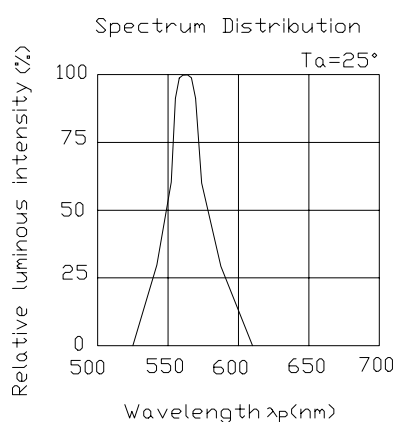
CHIP Material:GaAsP/GaP

Emitted Color:Hi-Eff Red/Orange



CHIP Material:GaP

Emitted Color:Yellow Green





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Device Number : CDDF-4I6-001 REV: 2

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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