



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDF-336-022 REV: 1.0

0.39" Quadruple Digit Display

MODEL NO : TDQG3150/ELF336VGWB ECN : _____ Page: 1/4

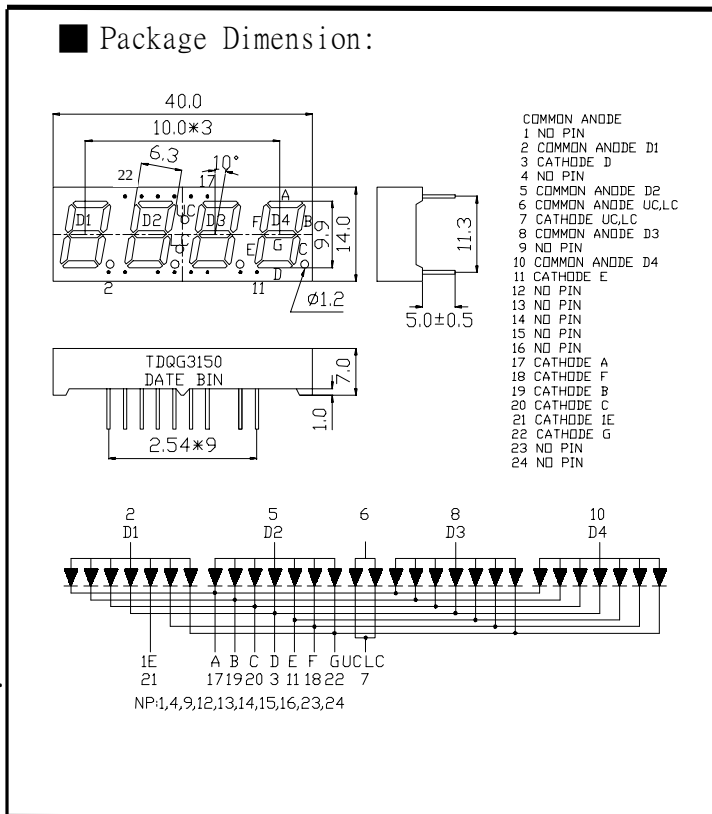
■ Features :

- Industrial Standard Size.
- Low Power Consumption.
- Categorized For Luminous Intensity.

■ Description :

- The ELF-336 series is a large 9.9mm (0.39") high seven segment display design for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light .
- These device is made with white segments and black surface.

■ Package Dimension:



■ Applications:

- Audio Equipment
- Instrument Panels
- Digital Readout Display

■ NOTES:

- 1.All dimensions are millimeters (inch), 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.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
TDQG3150/ELF336VGWB	GaP	Green	C.A.

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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	1.05	1.4	----	mcd	If=10mA
	Per decimal point		0.30	0.8	----		
Peak Wavelength		λp	----	570	----	nm	If=20mA
Dominant Wavelength		λd	----	571	----	nm	If=20mA
Spectrum Radiation Bandwidth		△λ	----	30	----	nm	If=20mA
Forward Voltage		Vf	1.7	2.1	2.4	V	If=20mA
Reverse Current		Ir	----	----	10	μA	Vr = 5V

■ Specifications for Bin Grading :

Bin Grading	MIN.	TYP.	MAX.	Unit
J	1.05	----	1.68	mcd
K	1.40	----	2.30	mcd
L	2.00	----	3.20	mcd
M	2.80	----	4.50	mcd
N	4.00	----	6.40	mcd



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■ Reliability test item and condition:

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 = 20 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:

VG

