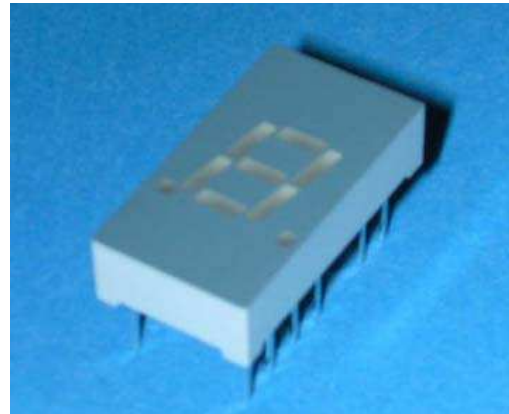


Technical Data Sheet  
0.3" Single Digit Displays

ELS-322UBWA/C470

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.
- Pb free
- The product itself will remain within RoHS compliant version



■ Descriptions :

- The ELS-322 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.

■ Applications :

- Audio equipment
- Instrument panels
- Digital read out display

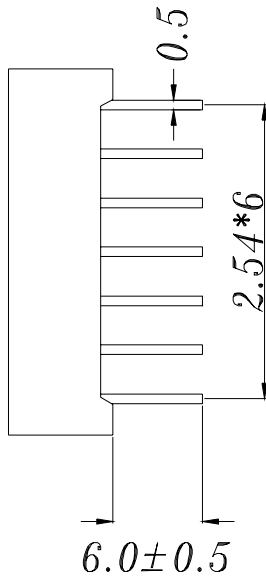
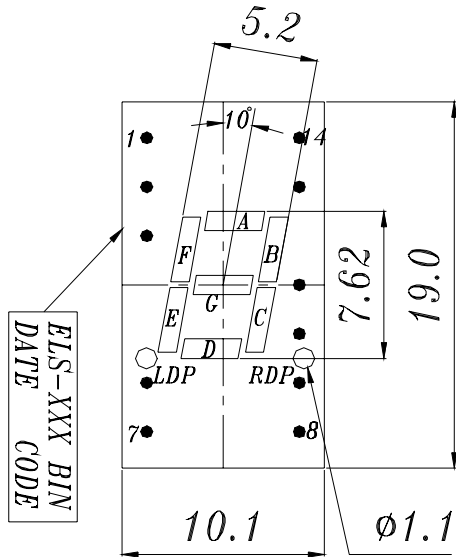
PART NO.	Chip	
	Material	Emitted Color
ELS-322UBWA/C470	InGaN/SiC	Blue

DR000010205

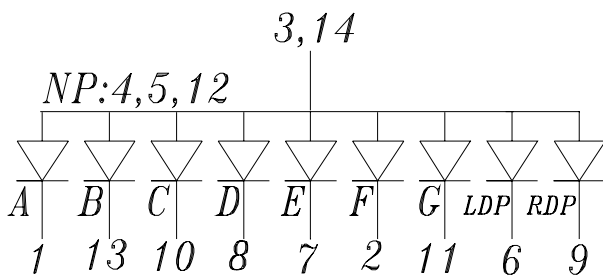
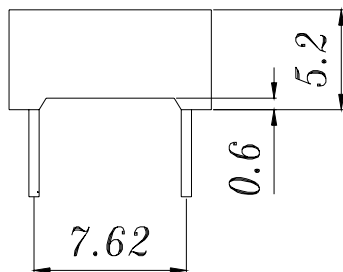
Technical Data Sheet  
0.3" Single Digit Displays

ELS-322UBWA/C470

Package Dimensions



- COMMON ANODE*
- 1 CATHODE A
  - 2 CATHODE F
  - 3 COMMON ANODE
  - 4 NO PIN
  - 5 NO PIN
  - 6 CATHODE LDP
  - 7 CATHODE E
  - 8 CATHODE D
  - 9 CATHODE RDP
  - 10 CATHODE C
  - 11 CATHODE G
  - 12 NO PIN
  - 13 CATHODE B
  - 14 COMMON ANODE



- 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.



LIGHTING FOREVER

Technical Data Sheet
0.3" Single Digit Displays

ELS-322UBWA/C470

Absolute maximum ratings at Ta = 25°C :

Table with 4 columns: Parameter, Symbol, Rating, Unit. Rows include Reverse Voltage, Forward Current, Operating Temperature, Storage Temperature, Soldering Temperature, Electrostatic Discharge, and Power Dissipation.

Note: \*Soldering time ≤ 5 seconds.

Electronic optical characteristics :

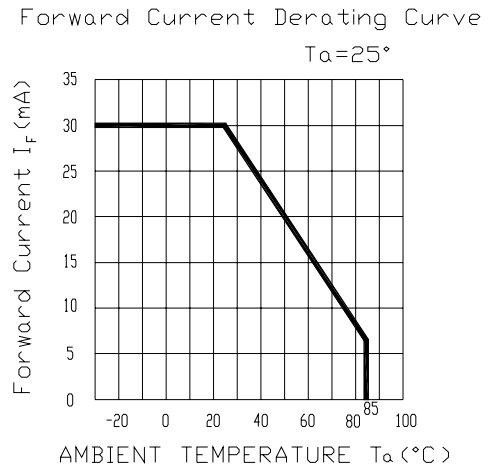
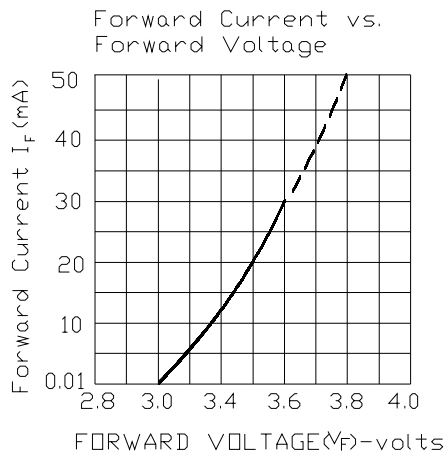
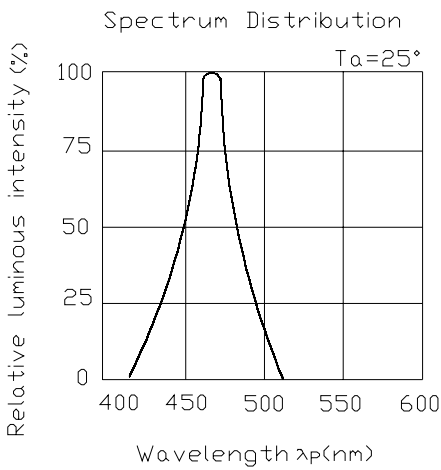
Table with 7 columns: Parameter, Symbol, Min., Typ., Max., Unit, Condition. Rows include Luminous Intensity (Per segment and Per decimal point), Peak Wavelength, Dominant Wavelength, Spectrum Radiation Bandwidth, Forward Voltage, and Reverse Current.



ELS-322UBWA/C470

■ Typical Electro-Optical Characteristic Curves:

( UB )



ELS-322UBWA/C470**Reliability test items and conditions:**

The reliability of products shall be satisfied with items listed below.

Confidence level : 97%

LTPD : 3%

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	0/1
2	Temperature Cycle	H : +85°C 30min § 5 min L : -40°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 : -40°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

Note :  $I_{vt}$  : The test  $I_v$  value of the chip before the reliability test

$I_v$  : The test value of the chip that has completed the reliability test

U : Upper Specification Limit

L : Lower Specification Limit



LIGHTING FOREVER

Technical Data Sheet

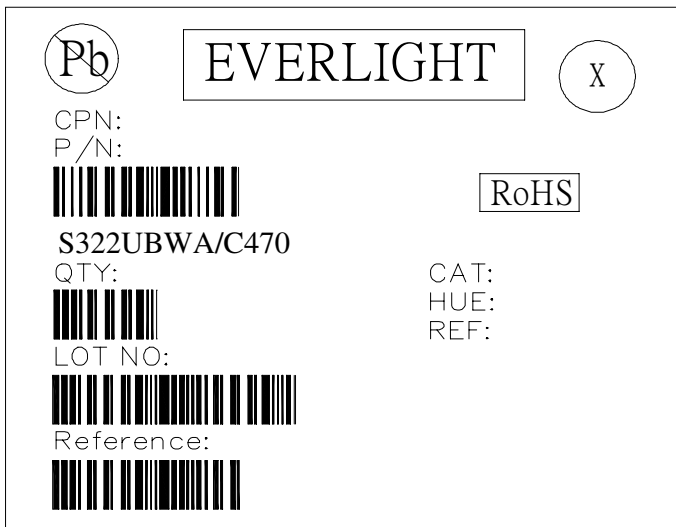
0.3" Single Digit Displays

ELS-322UBWA/C470

**■ Packing Quantity Specification**

1. 26PCS/tube, 72 tubes/box
2. 4Boxes/Carton

**Label Form Specification**



CPN: Customer's Production Number  
 P/N : Production Number  
 QTY: Packing Quantity  
 CAT: Ranks  
 HUE: Dominant Wavelength  
 REF: Reference  
 LOT No: Lot Number  
 Reference:Volume label code

**Notes :**

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

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