

# ELS-322EWA

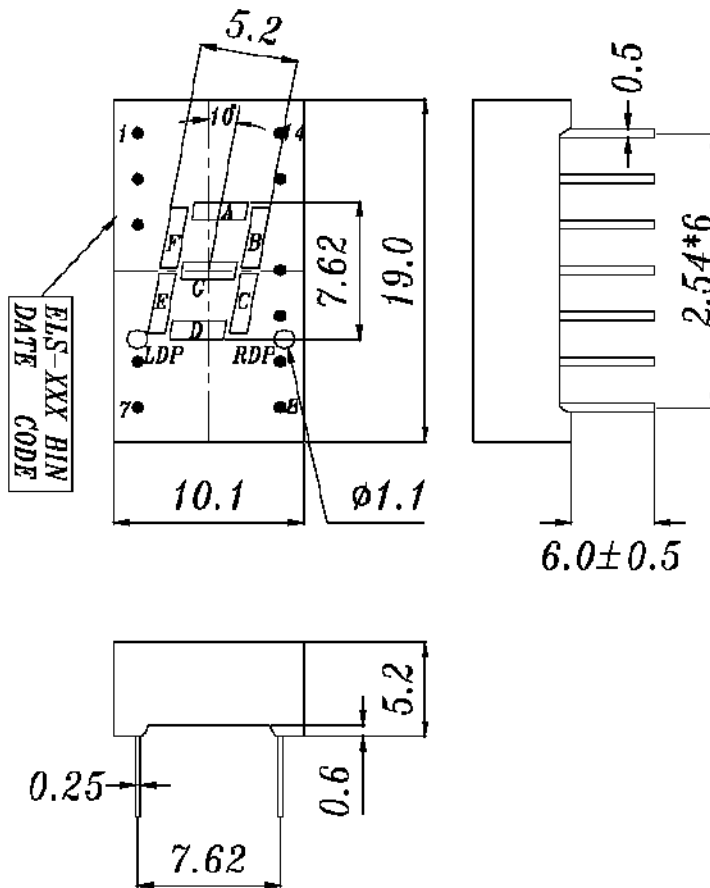
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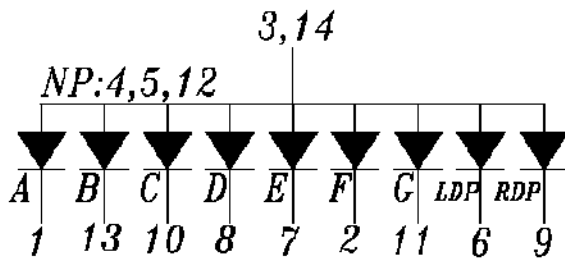
The ELS-322 series is a common anode seven segment display.



RoHS Compliant  
Aug 2004



- 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



PART NO.	Chip		Face Color
	Material	Emitted Color	
ELS-322EWA	GaAsP/GaP	Orange	Gray

\* Specifications subject to change without notice. Dimensions are in mm  $\pm 0.25$  unless stated otherwise.



**Absolute Maximum Ratings at  $T_a = 25\text{ }^\circ\text{C}$**

Parameter	Symbol	Rating	Units
Forward Current	$I_F$	30	mA
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Power Dissipation	$P_d$	100	mW
Peak Forward Current (Duty 1/10 @ 1 KHz)	$I_F(\text{Peak})$	160	mA
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	Per segment	0.45	1.2	—	mcd	$I_F = 10\text{ mA}$
	Per decimal point	0.15	0.4	—		
Peak Wavelength	$\lambda_p$	—	635	—	nm	$I_F = 20\text{ mA}$
Dominant Wavelength	$\lambda_d$	—	625	—	nm	$I_F = 20\text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	—	45	—	nm	$I_F = 20\text{ mA}$
Forward Voltage	$V_F$	1.7	2.0	2.4	V	$I_F = 20\text{ mA}$
Reverse Current	$I_R$	—		10	$\mu\text{A}$	$V_R = 5\text{ V}$

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