

ELLS-406GWA

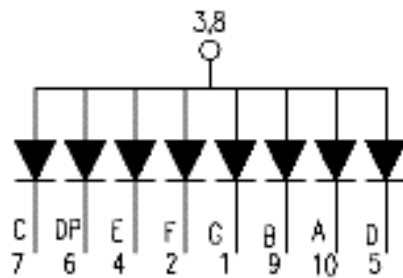
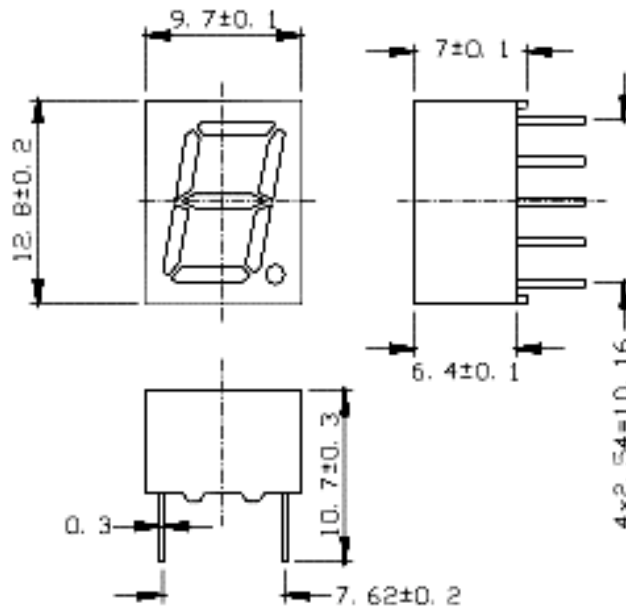
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The ELLS-406 series is a large 10.00 mm (0.39") high seven segment display designed for viewing distances up to 7 meters.



RoHS Compliant
Aug 2004



INTERNAL CONNECTION DIAGRM

- 1 CATHODE G
- 2 CATHODE F
- 3 COMMON ANODE
- 4 CATHODE E
- 5 CATHODE D
- 6 CATHODE DP
- 7 CATHODE C
- 8 COMMON ANODE
- 9 CATHODE B
- 10 CATHODE A

| PART NO. | Chip | | Face Color |
|-------------|----------|---------------|------------|
| | Material | Emitted Color | |
| ELLS-406GWA | GaP | Green | Gray |

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

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

| Parameter | Symbol | Rating | Units |
|---|-----------|------------------------|------------------|
| Forward Current | I_F | 15 | 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 (for ≤ 5 sec) | $^\circ\text{C}$ |
| Power Dissipation | P_d | 40 | mW |
| Pulse Forward Current (Pulse Width ≤ 10 msec and Duty $\leq 1/10$) | I_{FP} | 70 | mA |
| Reverse Voltage | V_R | 5 | V |

Electronic Optical Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Units | Condition |
|------------------------------|-------------------|------|------|------|---------------|----------------------|
| Luminous Intensity | Per segment | 0.18 | 0.90 | — | mcd | $I_F = 10\text{ mA}$ |
| | Per decimal point | — | — | — | | |
| Peak Wavelength | λ_p | — | 565 | — | nm | $I_F = 20\text{ mA}$ |
| Dominant Wavelength | λ_d | — | 570 | — | nm | $I_F = 20\text{ mA}$ |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ | — | 30 | — | nm | $I_F = 20\text{ mA}$ |
| Forward Voltage | V_F | — | 3.0 | — | V | $I_F = 20\text{ mA}$ |
| Reverse Current | I_R | — | | 10 | μA | $V_R = 5\text{ V}$ |

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