



## Technical Data Sheet

### 0.39" Single Digit Lead frame Displays

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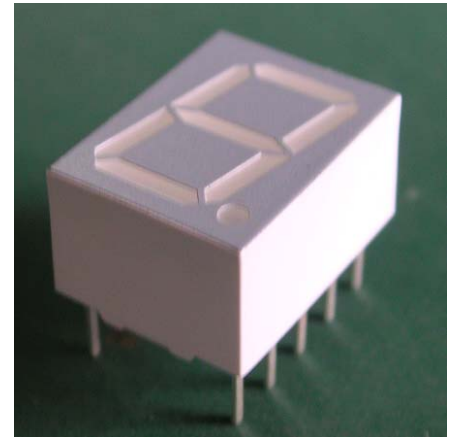
#### ELLS-406LWA

#### Features

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

#### Descriptions

- The ELLS-406 series is a large 10.00mm (0.39") 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.



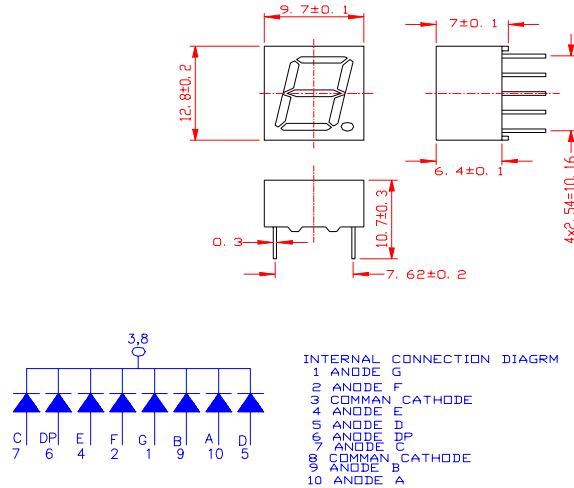
#### Applications

- Audio equipment
- Instrument panels
- Digital read out display

#### Device Selection Guide

Chip		Face Color
Material	Emitted Color	
GaAsP/GaP	Orange	Gray

**Package Dimensions**



- All dimensions are in millimeters, tolerance is 0.25mm unless otherwise noted.
- Above specification may be changed without notice. Supplier will reserve authority on material change for above specification

**Absolute Maximum Ratings (Ta=25°C)**

Parameter	Symbol	Rating	Units
Forward Current	I <sub>F</sub>	15	mA
Pulse Forward Current <sup>*1</sup>	I <sub>FP</sub>	70	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature <sup>*2</sup>	T <sub>sol</sub>	260	°C
Power Dissipation	P <sub>d</sub>	40	mW
Reverse Voltage	V <sub>R</sub>	5	V

**Notes:** \*1:I<sub>FP</sub> Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10.

\*2:Soldering time ≤ 5 seconds.

**Electro-Optical Characteristics (Ta=25°C)**

Parameter		Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage		$V_F$	$I_F=20\text{mA}$	---	3.0	---	V
Reverse Current		$I_R$	$V_R=5\text{V}$	--	--	10	$\mu\text{A}$
Luminous Intensity	Per segment	$I_V$	$I_F=10\text{mA}$	0.18	0.90	--	mcd
	Per decimal point			--	--	--	
Peak Wavelength		$\lambda_p$	$I_F=20\text{mA}$	--	635	--	nm
Dominant Wavelength		$\lambda_d$	$I_F=20\text{mA}$	--	625	--	nm
Spectrum Radiation Bandwidth		$\Delta\lambda$	$I_F=20\text{mA}$	--	45	--	nm

**Chromaticity Coordinates Specifications for Bin Grading(Unit:mcd)**

Rank	Min.	Max.	Rank	Min.	Max.
E	0.18	0.36	H	0.7	1.40
F	0.28	0.56	I	1.10	2.20
G	0.45	0.90	--	--	--

**Typical Electro-Optical Characteristics Curves**

