



SPECIFICATION FOR NUMERIC DISPLAY

P/N : NE440RL1A-A11

Preliminary

Description :
<ul style="list-style-type: none">● Seven Segment Numeric Display● 0.40 inch Height and Quadruple Digit● Emitting Color : Red● Black Face and White Segment● Common Anode

Designed by	Qualified by	Approved by Customer

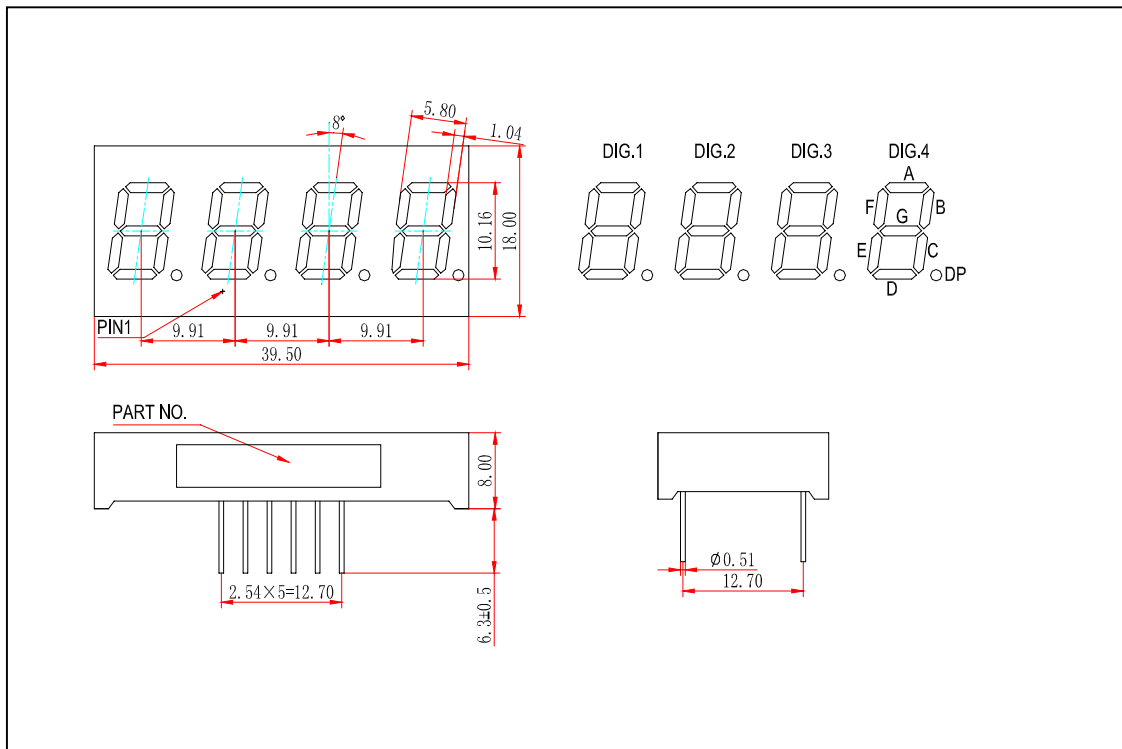
◆ FEATURES

- ◆ High intensity and reliability
- ◆ High quality、Low power requirement and low cost
- ◆ IC compatible、Easy assembly

◆ DESCRIPTION

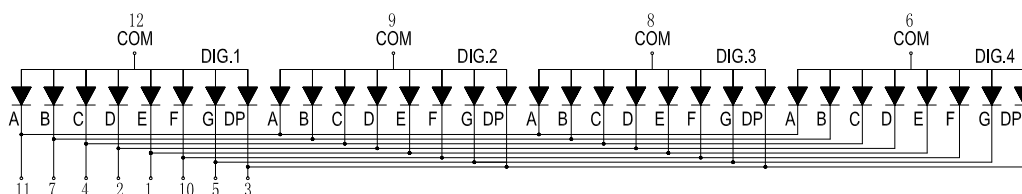
- ◆ NE440RL1A-A11 is 0.40 inch (10.2mm) height 7-segment single digit, quad digit display.
- ◆ Emitting Color : Red
- ◆ Dice Material : GaP/GaAlAs
- ◆ Black face and white segment
- ◆ Common Anode, static drive connect

◆ OUTER DIMENSIONS



NOTES: All dimensions are in millimeters (inches) tolerance are $\pm 0.25\text{mm}(0.010)$ unless otherwise noted

◆ INTERNAL CIRCUIT DIAGRAM



◆ PIN CONNECTION

PIN NO.	CONNECTION
1	E
2	D
3	DP
4	C
5	G
6	DIG.4
7	B
8	DIG.3
9	DIG.2
10	F
11	A
12	DIG.1

◆ ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:

PARAMETER	MAX	UNIT
Power Dissipation Per Segment	100	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	155	mA
Average Forward Current Per Segment	30	mA
Departing Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to + 85°C	
Storage Temperature Range	-40°C to + 85°C	
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds		

◆ ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I_V	1.0	1.8	—	mcd	$I_F=10\text{mA}$
Dominant Wavelength	λ_D	—	643	—	nm	$I_F=20\text{mA}$
Peak Emission Wavelength	λ_P	—	660	—	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	—	20	—	nm	$I_F=20\text{mA}$
Forward Voltage Per Segment	V_F	—	1.85	2.1	V	$I_F=20\text{mA}$
Reverse Current Per Segment	I_R	—	—	100	μA	$V_R=5\text{V}$
Luminous Intensity Matching Ratio (Segment To Segment)	I_{V-m}			2:1		$I_F=10\text{mA}$

◆ Brightness Bin, If=10mA/Seg

Bin Code	Range (ucd)	
I	2161	2800
J	2801	3640
K	3641	4730

◆ Package

