鑫谷光电股份有限公司

GOLDEN VALLEY OPTOELECTRONICS CO., LTD.

SPECIFICATION FOR NUMERIC DISPLAY

P/N : NE440YL1A-A11

Preliminary

Description :
● Seven Segment Numeric Display
● 0.40 inch Height and Quadruple Digit
● Emitting Color : Yellow
● Black Face and White Segment
● Common Anode

Designed by	Qualified by	Approved by Customer

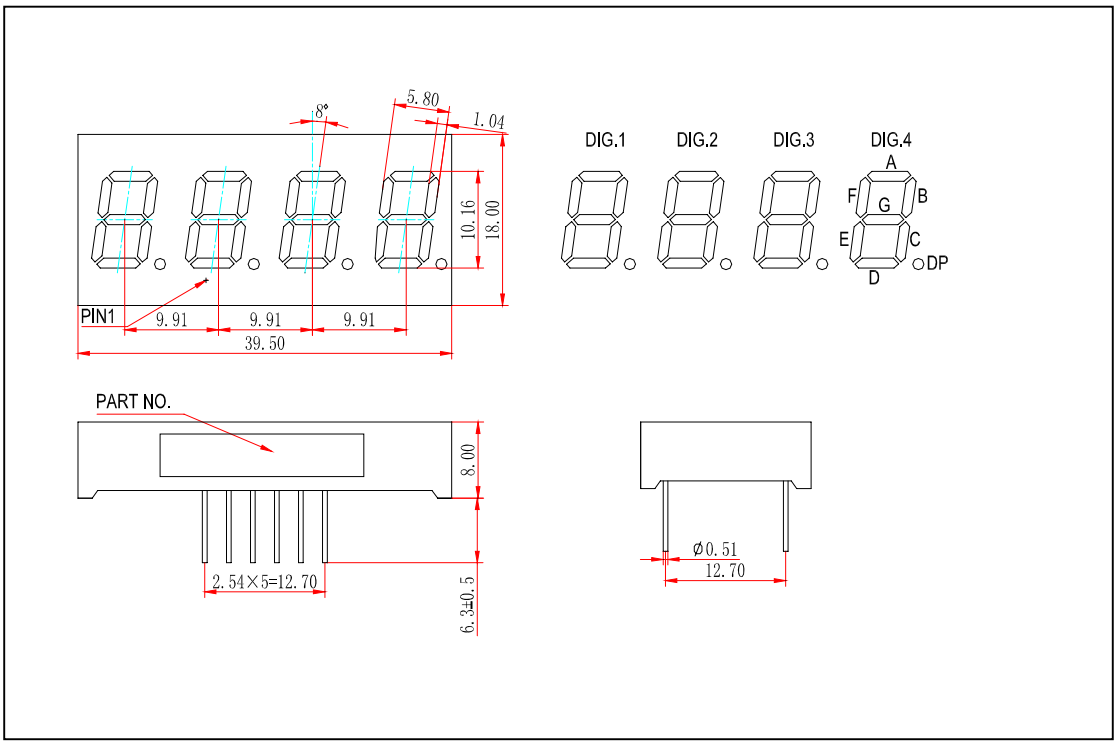
◆ FEATURES

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

◆ DESCRIPTION

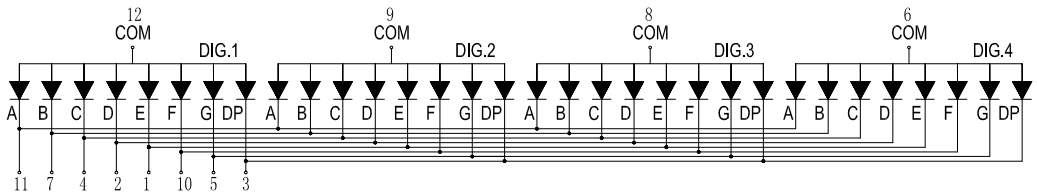
- ◆ NE440YL1A-A11 is 0.40 inch (10.2mm) height 7-segment dual digit, quad digit display.
- ◆ Emitting Color : Yellow
- ◆ Dice Material : InGaAlP
- ◆ Black face and white segment
- ◆ Common Anode, static drive connect

◆ OUTER DIMENSIONS



NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25mm(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℃:

PARAMETER	MAX	UNIT
Power Dissipation Per Segment	65	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	mA
Average Forward Current Per Segment	25	mA
Departing Linear From 25°C Per Segment	0.25	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=10mA
Dominant Wavelength	λ_D	—	590	—	nm	I_F=20mA
Peak Emission Wavelength	λ_P	—	593	—	nm	I_F=20mA
Spectral Line Half-Width	$\Delta\lambda$	—	35	—	nm	I_F=20mA
Forward Voltage Per Segment	V_F	—	2.0	2.3	V	I_F=20mA
Reverse Current Per Segment	I_R	—	—	100	μA	V_R=5V
Luminous Intensity Matching Ratio (Segment To Segment)	I_{v-m}			2:1		I_F=10mA

◆ Brightness Bin, If=10mA/Seg

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

◆ Color BIN, If=10mA/Seg

BIN Code	Range λD（nm）	
3	589.0	591.0
4	591.0	593.0

◆ Package