



SPECIFICATION FOR NUMERIC DISPLAY

P/N : NP254 Series

Preliminary

Description :
● Alphanumeric LED Display ● 0.54 inch Height and Dual Digit ● Emitting Color : Red、 Green ● Black Face and White or Red Segment Black or Gray Face and White Segment

Designed by	Qualified by	Approved by Customer

◆ FEATURE

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

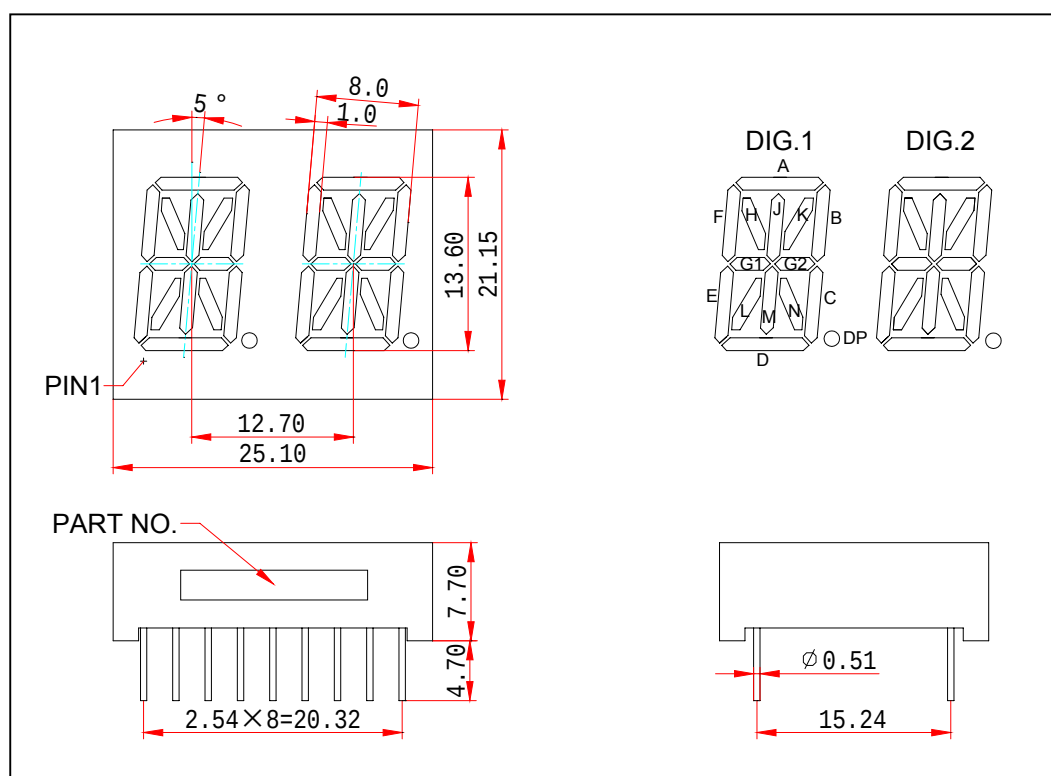
◆ DESCRIPTION

- ◆ The NP254 Series are 0.54 inch (13.6mm) height 16-segment dual digit alphanumeric displays .
- ◆ RED displays have black face and white segment or red segment .
- ◆ Bright Green display have black face or gray face and white segment.

◆ DEVICES GUIDE

PART NO.		DESCRIPTION	INTERNAL CIRCUIT DIAGRAM
RED	YELLOW GREEN		
NP254RxxC-A11	NP254GxxC-A11	Common Cathode	A
NP254RxxA-A11	NP254GxxA-A11	Common Anode	B

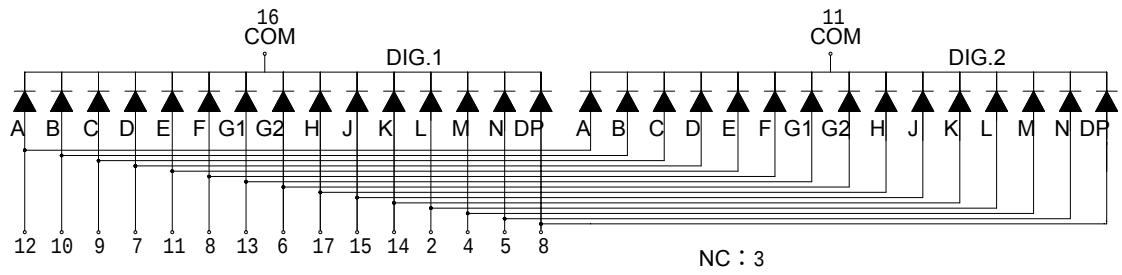
◆ OUTER DIMENSIONS



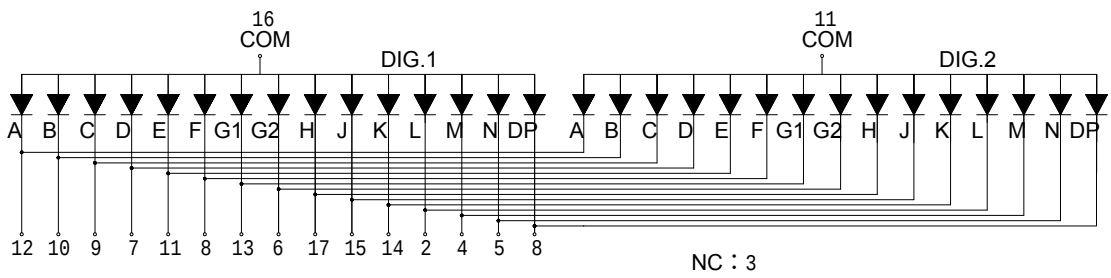
NOTES: All dimensions are in millimeters (inches) tolerance are $\pm 0.25\text{mm}(0.010)$ unless otherwise noted

◆ INTERNAL CIRCUIT DIAGRAM

A : Common Cathode



B : Common Anode



◆ PIN CONNECTION

PIN NO.	CONNECTION	
	A. NP254xxxC-A11	B. NP254xxxA-A11
1	Anode E	Cathode E
2	Anode N	Cathode N
3	NC	NC
4	Anode M	Cathode M
5	Anode L	Cathode L
6	Anode G2	Cathode G2
7	Anode D	Cathode D
8	Anode DP	Cathode DP
9	Anode C	Cathode C
10	Anode B	Cathode B
11	Common Cathode DIG.2	Common Anode DIG.2
12	Anode A	Cathode A
13	Anode G1	Cathode G1
14	Anode K	Cathode K
15	Anode J	Cathode J
16	Common Cathode DIG.1	Common Anode DIG.1
17	Anode H	Cathode H
18	Anode F	Cathode F

◆ **ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:**

PARAMETER	RED	YELLOW GREEN	UNIT
Power Dissipation Per Segment	50	65	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	100	mA
Average Forward Current Per Segment	25	25	mA
Departing Linear From 25°C Per Segment	0.40	0.33	mA/°C
Reverse Voltage Per Segment	5	5	V
Operating Temperature Range	-35°C to + 85°C		
Storage Temperature Range	-35°C to + 85°C		
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds			

◆ **ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C****NP254Rxxx-A11**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I_v	4.50	6.00	—	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	—	1.8	2.00	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		$I_F=10\text{mA}$

NP254Gxxx-A11

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I_v	2.00	3.50	—	mcd	$I_F=10\text{mA}$
Dominant Wavelength	λ_D	—	573	—	nm	$I_F=20\text{mA}$
Peak Emission Wavelength	λ_P	—	568	—	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	—	30	—	nm	$I_F=20\text{mA}$
Forward Voltage Per Segment	V_F	—	2.25	2.60	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		$I_F=10\text{mA}$