WCN1-XX40XX-XXXR
WCN2-XX40XX-XXX
WCN3-XX40XX-XXX
WCN4-XX40XX-XXX

SERIES

0.40"SEVEN-SEGMENT NUMERIC LED DISPLAYS

FEATURES

- High intensity and reliability.
- High quality and low cost.
- Choice of colors: Red/Orange/Green/Blue,etc
- Low power requirement.
- Ic compatible.
- Easy assembly.

DESCRIPTION

The WCN1-XX40XX-XXXR, WCN2-XX40XX-XXX , WCN3-XX40XX-XXX and WCN4-XX40XX-XXX series are 0.40 inch (10.16mm), height single, dul, triad and quad digit displays.

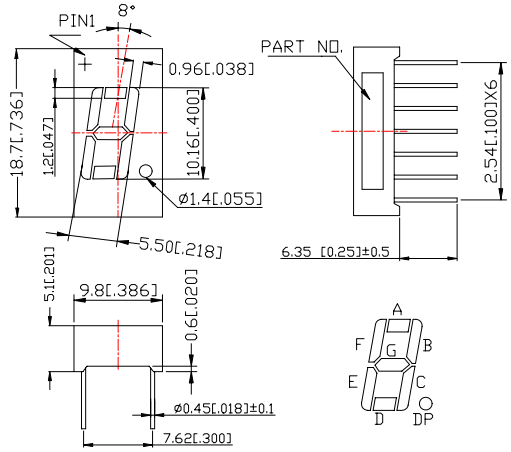
SH. Red displays have black face or gray face and milky segment or red segment.

Orange displays have black face or gray face and milky segment or red segment.

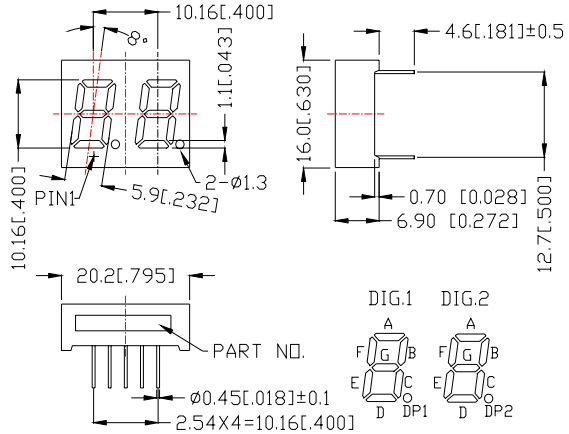
Yellow Green displays have black face or gray face and milky segment or green segment

PACKAGE DIMENSIONS

A. WCN1-XX40XX-A1XR/C1XR



B. WCN2-XX40XX-A1X/C1X



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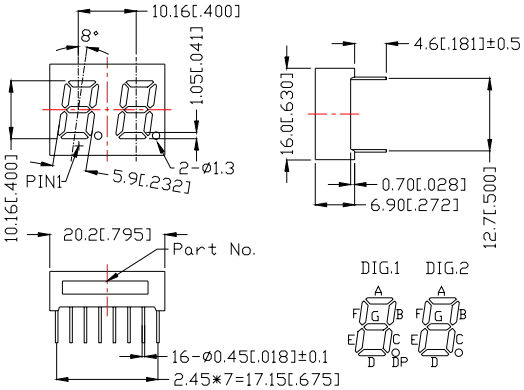
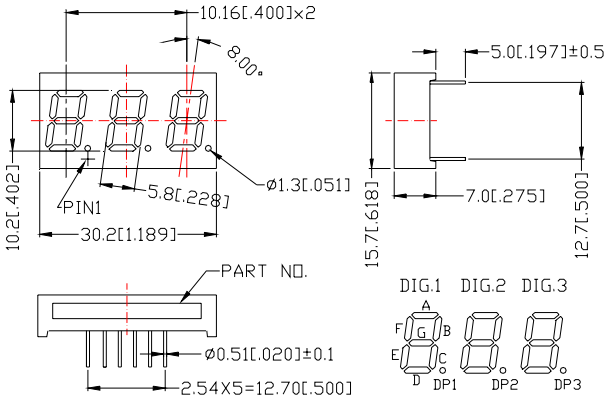
PACKAGE DIMENSIONS

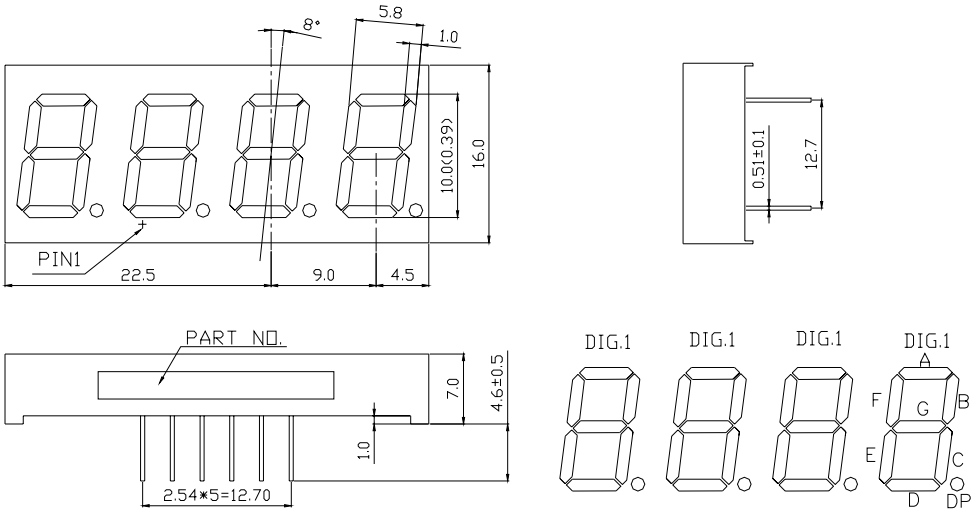
C. WCN2-XX40XX-A2X/C2X



D. WCN3-XX40XX-A1X/C1X



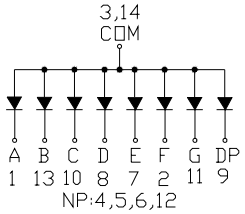
E. WCN4-XX40XX-A12/C12



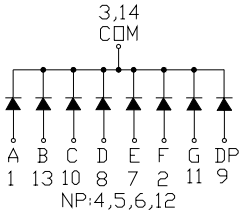
NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25mm(0.010) unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM

A. WCN1-XX40XX-A1XR

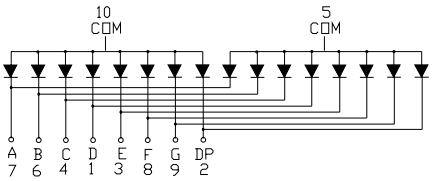


B. WCN1-XX40XX-C1XR

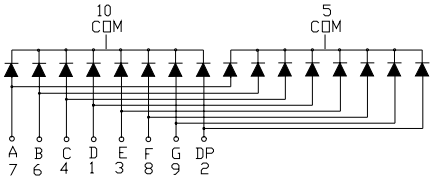


INTERNAL CIRCUIT DIAGRAM

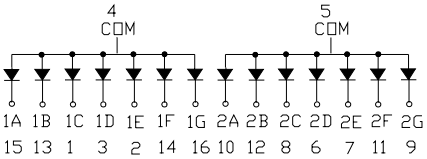
C. WCN2-XX40XX-A1X



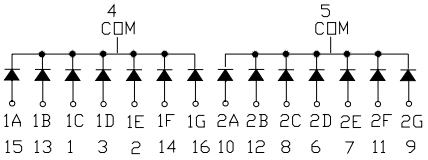
D. WCN2-XX40XX-C1X



E. WCN2-XX40XX-A2X

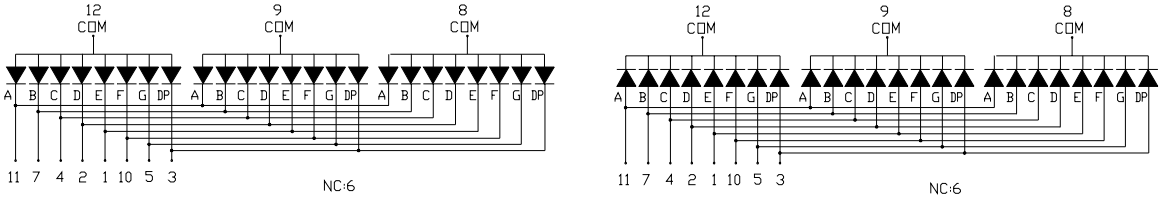


F. WCN3-XX40XX-C2X

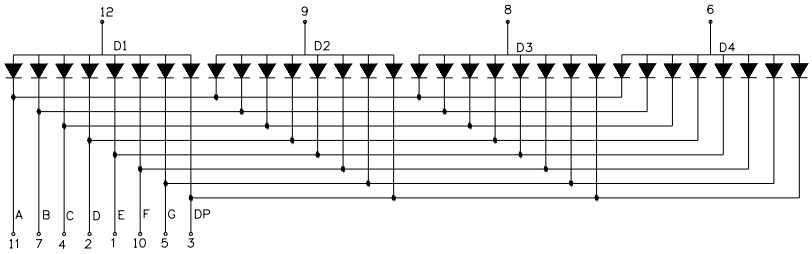


G. WCN3-XX40XX-A1X

H. WCN3-XX40XX-C1X



H. WCN4-XX40XX-A12



ABSOLUTE MAXIMUM RATINGS AT T_a=25°C

PARAMETER	SH.RED	ORANGE	Yellow GREEN	UNIT
Power Dissipation Per Segment	50	65	65	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	100	100	mA
Continuous Forward Current Per Segment	25	25	25	mA
Derating Linear From 25°C Per Segment	0.30	0.20	0.33	mA/°C
Reverse Voltage Per Segment	5	5	5	V
Operating Temperature Range	-35°C to + 85°C			
Storage Temperature Range	-35°C to + 85°C			
Solder Temperature 1/16 inch below seating plane for 3 seconds at 260°C				

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ELECTRICAL/OPTICAL CHARACTERISTICS AT T_a=25°C

WCN1-0040SR-A11R/C11R;WCN2-0040SR-A11/C11/A21/C21;WCN3-0040SR-A11/C11;

WCN4-0040SR-A12/C12

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Luminous Intensity Per Segment	I_V	2.0	4.0	—	mcd	I_F=10mA
Dominant Wavelength	λ_D	—	643	—	nm	I_F=20mA
Peak Emission Wavelength	λ_P	—	660	—	nm	I_F=20mA
Spectral Line Half-Width	$\Delta\lambda$	—	20	—	nm	I_F=20mA
Forward Voltage Per Segment	V_F	—	1.8	2.0	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

WCN1-0040HO-A11R/C11R;WCN2-0040HO-A11/C11/A21/C21;WCN3-0040HO-A11/C11;

WCN4-0040HO-A12/C12

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Luminous Intensity Per Segment	I_V	1.0	2.0	—	mcd	I_F=10mA
Dominant Wavelength	λ_D	—	622	—	nm	I_F=20mA
Peak Emission Wavelength	λ_P	—	632	—	nm	I_F=20mA
Spectral Line Half-Width	$\Delta\lambda$	—	35	—	nm	I_F=20mA
Forward Voltage Per Segment	V_F	—	2.05	2.6	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

WCN1-0040GU-A11R/C11R;WCN2-0040GU-A11/C11/A21/C21;WCN3-0040GU-A11/C11;

WCN4-0040GU-A12/C12

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Luminous Intensity Per Segment	I_V	1.25	3.0	—	mcd	I_F=10mA
Dominant Wavelength	λ_D	—	573	—	nm	I_F=20mA
Peak Emission Wavelength	λ_P	—	568	—	nm	I_F=20mA
Spectral Line Half-Width	$\Delta\lambda$	—	30	—	nm	I_F=20mA
Forward Voltage Per Segment	V_F	—	2.25	2.6	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