

FEATURES

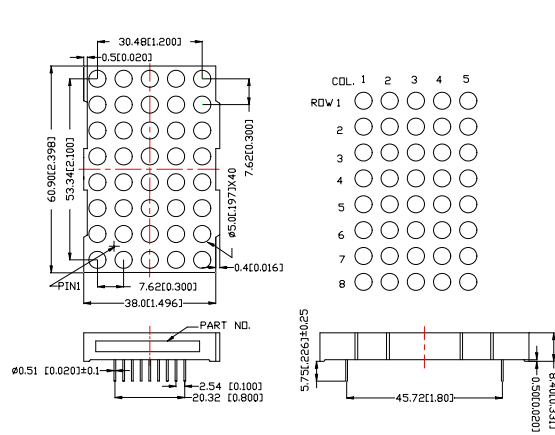
- 2.4inch (60.9mm or 60.5mm) Matrix height
- Dual colors---Bright Green + Orange/ Bright Green + SH. Red
- Flat package and light weight
- Easy assembly
- High quality and low cost
- High reliable and intensity
- Low power requirement

DESCRIPTION :

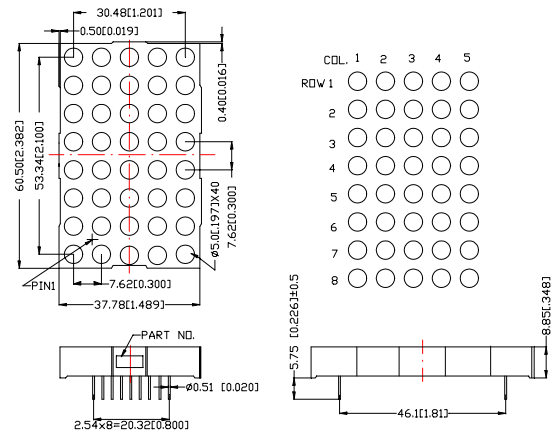
- 5 X 8 dot matrix displays
- Ø5.0mm dot and pitch 7.62mm
- Black face or gray face and milky dots

PACKAGE DIMENSIONS

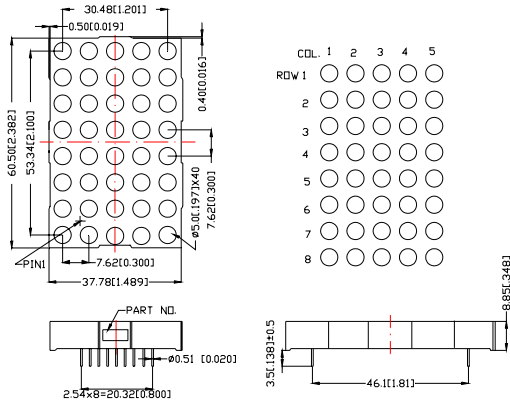
A. WCN-5824D1/D3-DA01/DC01



B. WCN-5824D1/D3-DA02/DC02



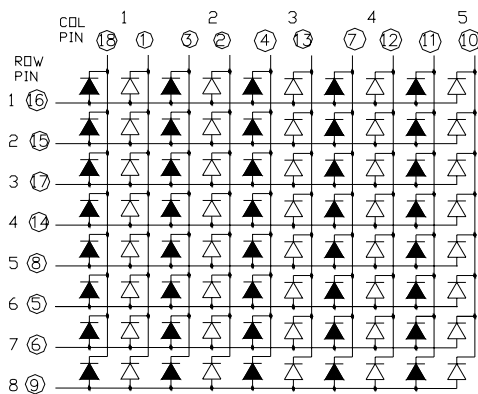
C. WCN-5824D1/D3-DA06/DC06



NOTES: All dimensions are in millimeter (inches) tolerance are ±0.25mm (0.01inch) unless otherwise noted;

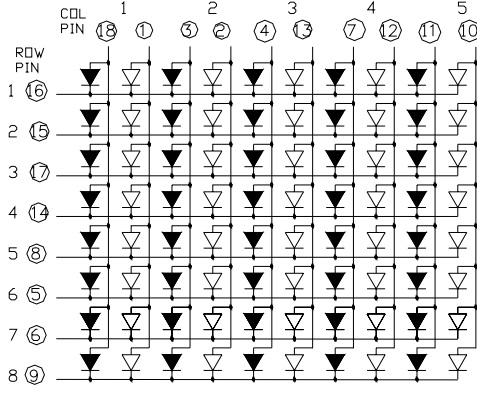
CIRCUIT DIAGRAM

A. WCN-5824D1/D3-DA01/DA02/DA06



The Sign "▲" Represent for Red Chips
The Sign "▲" Represent for Yellow Green Chips

B. WCN-5824D1/D3-DC01/DC02/DC06



ABSOLUTE MAXIMUM RATINGS AT $T_a=25^\circ\text{C}$

PARAMETER	Bright Green	Orange	SH. Red	UNIT
Maximal Power Dissipation (When completely Lighting) Per Dot	52	52	40	mW
Maximal Forward Current (When completely Lighting) Per Dot	20	20	20	mA
Derating Linear From 25°C Per Dot	0.166	0.166	0.166	mA/°C
Peak Forward Current Per Dot	80	80	80	mA
Reverse Voltage Per Dot	5			V
Operation Temperature Range	-35~+85			°C
Storage Temperature Range.	-35~+85			°C

NOTES: $T_a=25^\circ\text{C}$

$I_{FP}= 1/8\text{Duty } 10\text{KHZ}$

OPTOELECTRIC CHARACTERISTICS $T_a=25^\circ\text{C}$

PARAMETER	SYMBOL	TEST CONDITIONS	PART NO.	RATING			UNIT
				MIN.	TYP.	MAX.	
Forward Voltage Per Dot	V_F	$I_F=20\text{mA}$	Bright Green	1.8	2.25	2.6	V
			Orange	—	2.05	2.6	
			SH. Red	—	1.8	2.0	
Reverse Current Per Dot	I_R	$V_R=5\text{V}$	Bright Green, SH. Red, Orange	—	—	100	μA
Luminance	L	$I_{FP}=40\text{mA}$	Bright Green	—	3.5	—	mcd
			Orange	—	2.0	—	
		1/8 Duty	SH. Red	—	5.0	—	
Peak Emission Wavelength Per Dot	λ_p	$I_F=20\text{mA}$	Bright Green	—	568	—	nm
			Orange	—	632	—	
			SH. Red	—	660	—	
Dominant Wavelength Per Dot	λ_D	$I_F=20\text{mA}$	Bright Green	—	573	—	nm
			Orange	—	622	—	
			SH. Red	—	643	—	
Spectral Line Wave Length Per Dot	$\Delta\lambda$	$I_F=20\text{mA}$	Bright Green	—	30	—	nm
			Orange	—	35	—	
			SH. Red	—	20	—	
Luminous Intensity Matching Ratio (Dot To Dot)	lv-m	$I_{FP}=40\text{mA}$ 1/8 Duty	Bright Green. SH. Red, Orange			2:1	

SOLDERING CONDITIONS : Soldering Temp. $\leq +260^\circ\text{C}$; Soldering Time $\leq 3\text{sec}$

(at 2mm Distance from the Case of Reflector Edge)