



DM2-8808 SERIES

Ø1.9mm 8x8 MULTICOLOR DOT MATRIX LED DISPLAYS

FEATURES

- 0.79inch (20.1mm) 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

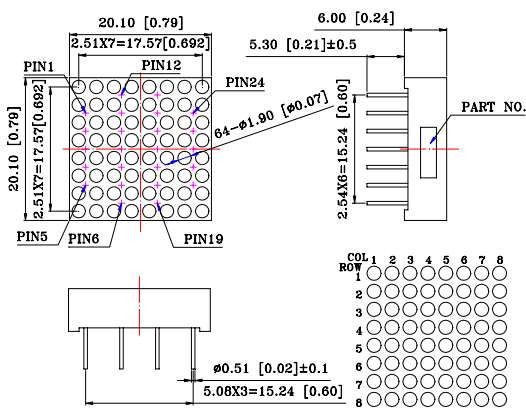
DESCRIPTION :

- 8x8 dot matrix displays
- Ø1.90mm dot and pitch2.51mm
- Black face or gray face and white diffused dots

DEVICES

PART NO.		DESCRIPTION	CIRCUIT DIAGRAM
Bright Green + Orange	Bright Green + SH. Red		
DM2-8808D1-DA01	DM2-8808D3-DA01	Row Anode	A
DM2-8808D1-DC01	DM2-8808D3-DC01	Row Cathode	B

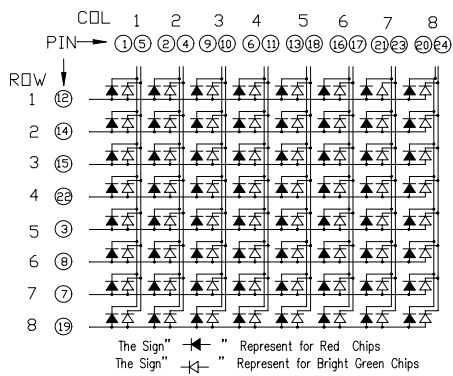
PACKAGE DIMENSIONS



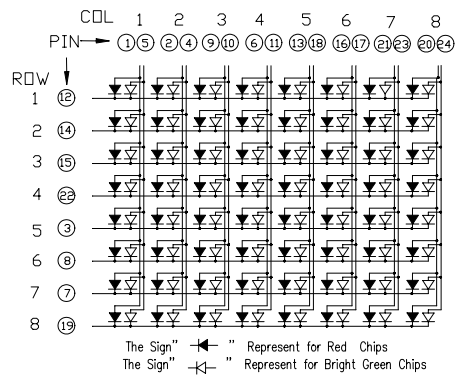
NOTES: All dimensions are in millimeters (inches) tolerance are ±0.25mm (0.01inch) unless otherwise noted;

CIRCUIT DIAGRAM

A. DM2-8808D1/D3-DA01



B. DM2-8808D1/D3-DC01



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Column 1 (Orange/ SH. Red)	13	Column 5 (Orange/ SH. Red)
2	Column 2 (Orange/ SH. Red)	14	Row 2
3	Row 5	15	Row 3
4	Column 2 (Bright Green)	16	Column 6 (Orange/ SH. Red)
5	Column 1 (Bright Green)	17	Column 6 (Bright Green)
6	Column 4 (Orange/ SH. Red)	18	Column 5 (Bright Green)
7	Row 7	19	Row 8
8	Row 6	20	Column 8 (Orange/ SH. Red)
9	Column 3 (Orange/ SH. Red)	21	Column 7 (Orange/ SH. Red)
10	Column 3 (Bright Green)	22	Row 4
11	Column 4 (Bright Green)	23	Column 7 (Bright Green)
12	Row 1	24	Column 8 (Bright Green)

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	20.8	20.8	16	mW
Maximal Forward Current (When completely Lighting) Per Dot	8	8	8	mA
Derating Linear From 25°C Per Dot	0.05	0.05	0.05	mA/°C
Peak Forward Current Per Dot	60	60	60	mA
Reverse Voltage Per Dot	5			V
Operation Temperature Range	-35~+85			°C
Storage Temperature Range.	-35~+85			°C

NOTES: $T_a=25^{\circ}\text{C}$ $I_{FP}=1/8$ Duty 10KHZ

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	$I_{FP}=20\text{mA}$ 1/8 Duty	Bright Green + Orange	—	180	—	cd/m^2
			Bright Green + SH. Red	—	250	—	
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)	I_{v-m}	$I_{FP}=20\text{mA}$ 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)