LM15088C/D Series – 1.50 inch 8x8 Dot Matrix LED Display

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

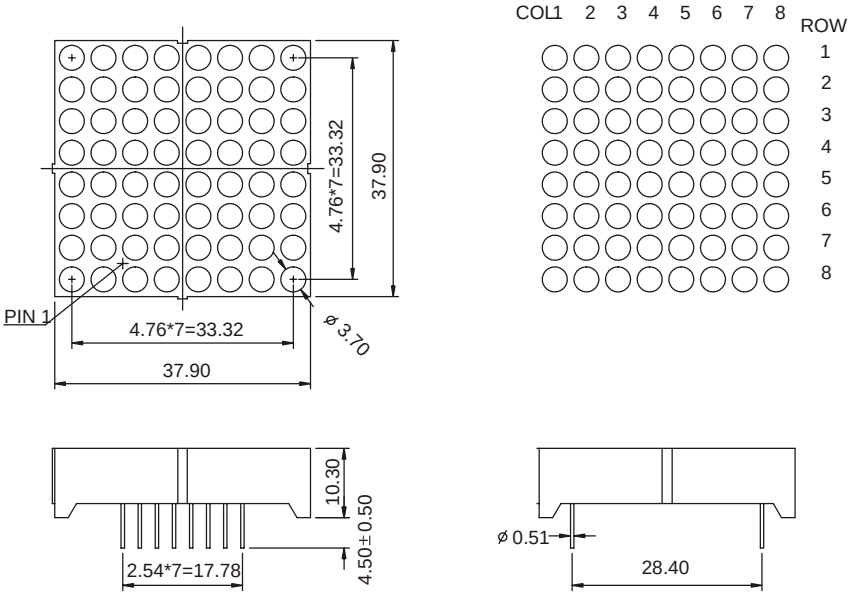
Features

- 37.90 mm (1.50 inch) matrix height
- Dot size: Diameter 3.70 mm
- Pitch: 4.75 mm
- Wide viewing angle
- Range of emitted colors
- I.C. compatible
- Low power consumption
- White dot, grey or black face
- RoHS compliant

Available options

- Alternative emitting luminosity:
  Standard or high brightness version
- Alternative emitted color
- Alternative dot color
- Alternative face color
- Both CA or CC versions are available
- Cropped terminal pins

Package Dimensions

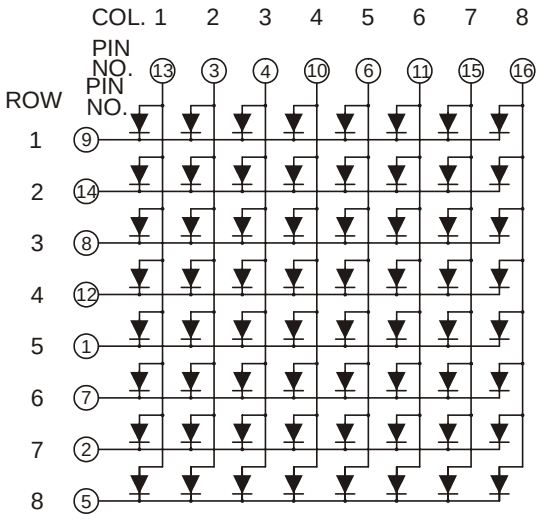


Notes:

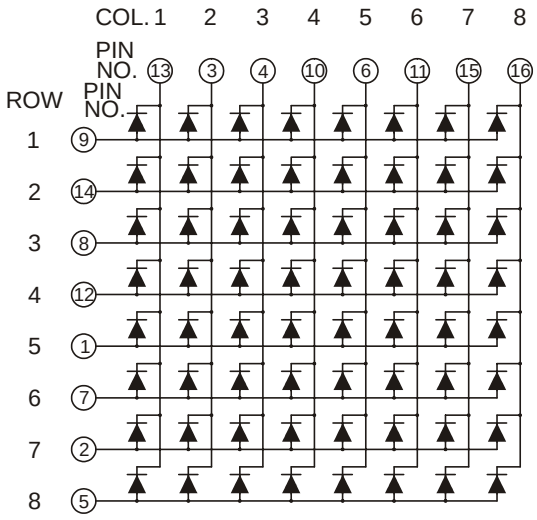
1. All dimensions are in millimeters (inches), Tolerance is ± 0.25mm (0.01inch) unless other wise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LM15088C (Common Cathode Row)



LM15088D (Common Anode Row)



Selection Guide

Part No.		Chip			Iv@IF=20mA	
Common Cathode Row	Common Anode Row	Material	Color	WLD	One Dot	
					Min.	Typ.
LM15088CR	LM15088DR	GaAlAs	Super Red	640	8	10
LM15088CD	LM15088DD	GaAlAs	Hi-Red	640	18	25
LM15088CO	LM15088DO	GaAsP	Orange	625	7	9
LM15088CY	LM15088DY	GaAsP	Yellow	588	8	10
LM15088CG	LM15088DG	GaP	Green	568	7	9
LM15088CUR	LM15088DUR	AlGaInP	Ultra Red	640	30	45
LM15088CUO	LM15088DUO	AlGaInP	Ultra Orange	625	45	60
LM15088CUA	LM15088DUA	AlGaInP	Ultra Amber	605	30	45
LM15088CUY	LM15088DUY	AlGaInP	Ultra Yellow	595	30	45
LM15088CUG	LM15088DUG	AlGaInP	Ultra Green	573	30	45
LM15088CPG	LM15088DPG	InGaN	Pure Green	525	120	300
LM15088CUB	LM15088DUB	InGaN	Ultra Blue	470	30	45
LM15088CUW	LM15088DUW	SMD	Ultra White	\	100	120
Unit:	\	\	\	nm	mcd	mcd

Electrical Characteristics & Absolute Maximum Ratings

Color		Electrical Characteristics[1]			Absolute Maximum Ratings[1]		
		V_F@ I_F=20mA[2]		Reverse Current VR=5V	Power Dissipation	DC Forward Current	Peak Forward Current[3]
		Typ.	Max.				
Super Red	Per Dot	1.8	2.2	30	60	25	100
Hi-Red	Per Dot	1.8	2.2	30	60	25	100
Orange	Per Dot	2.1	2.5	30	80	30	100
Yellow	Per Dot	2.1	2.5	30	80	30	100
Green	Per Dot	2.2	2.5	30	80	30	100
Ultra Red	Per Dot	1.9	2.6	30	60	30	100
Ultra Orange	Per Dot	2.0	2.6	30	65	30	100
Ultra Amber	Per Dot	2.0	2.6	30	65	30	100
Ultra Yellow	Per Dot	2.0	2.6	30	65	30	100
Ultra Green	Per Dot	2.1	2.6	30	75	30	100
Pure Green	Per Dot	3.5	4.0	30	110	30	100
Ultra Blue	Per Dot	3.5	4.0	30	120	30	100
Ultra White	Per Dot	3.5	4.0	30	120	30	100
Unit:	\	V	V	uA	mW	mA	mA

Notes:

1. At Ta = 25 °C.

2. Forward voltage at forward current = 20mA.

3. Peak forward current at 1/10 Duty Cycle, 0.1ms Pulse.