

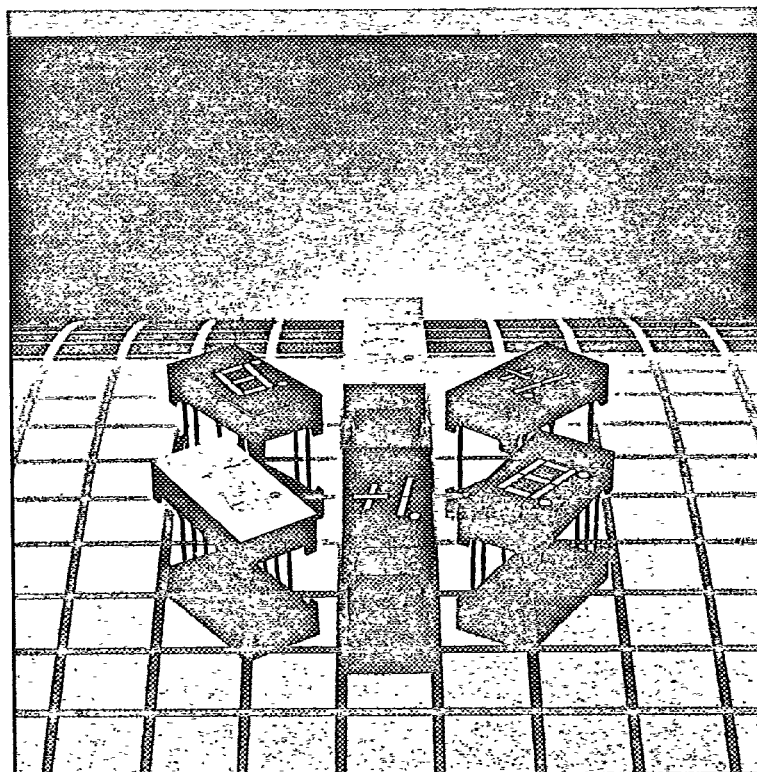
LA 70 & LA 3000 Series of .3" LED Displays

Description:

The LA 70 and LA 3000 Series of .3" displays offer industry-standard digits in a full range of colors: red, high-efficiency red, orange, yellow and high-efficiency green. Right and left-hand decimal points, common anode, common cathode and ± 1 overflow digits are available.

Features:

- Industry-standard pinout and package size.
- Choice of five colors: Red, High-Efficiency Red, Orange, Yellow, and High-Efficiency Green.
- Choice of common anode or common cathode.
- Rugged filled reflector type construction.
- I.C. compatible.
- Coded for luminous intensity matching.



ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$) All part numbers

Parameter	Symbol	Rating	Unit
Power Dissipation (per segment)	P_D	60	mW
Continuous Forward Current (per segment)	I_F	25	mA
Reverse Voltage (per segment)	V_R	5	V
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +85	$^\circ\text{C}$
Lead Soldering Temperature	-	260 $^\circ\text{C}$ (Max. 3 sec; Min .063"/1.6 mm from body)	-

ELECTRO-OPTICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Electrical and Optical Characteristics															Unit
			Red LA 70 Series			Hi-Eff. Red LA 3900 Series			Orange LA 3600 Series			Yellow LA 3800 Series			Hi-Eff. Green LA 3400 Series			
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward Voltage	V _F	I _F = 10 mA	-	2.0	2.8	-	2.0	2.8	-	2.0	2.8	-	2.1	2.8	-	2.1	2.8	V
Luminous Intensity (per digit)	I _V	I _F = 10 mA	1.6	-	-	1.6	-	-	1.5	-	-	1.0	-	-	2.2	-	-	mcd
Reverse Current	I _R	V _R = 5V	-	-	100	-	-	100	-	-	100	-	-	100	-	-	100	μA
Peak Wavelength	λ _p	I _F = 10 mA	-	650	-	-	635	-	-	610	-	-	585	-	-	563	-	nm
Spectral Line Halfwidth	Δλ	I _F = 10 mA	-	40	-	-	40	-	-	40	-	-	40	-	-	40	-	nm

PART DESCRIPTION

Part Number	Color	Description	Pinout	Drawing
LA-71	Red	Common Anode, Right-hand Decimal	A	Fig. 1
LA-72	Red	Common Anode, Left-hand Decimal	B	Fig. 2
LA-73	Red	Common Anode, ± 1 Overflow	C	Fig. 3
LA-74	Red	Common Cathode, Right-hand Decimal	D	Fig. 4
LA-3410	High-Efficiency Green	Common Anode, Right-hand Decimal	A	Fig. 1
LA-3420	High-Efficiency Green	Common Anode, Left-hand Decimal	B	Fig. 2
LA-3430	High-Efficiency Green	Common Anode, ± 1 Overflow	C	Fig. 3
LA-3440	High-Efficiency Green	Common Cathode, Right-hand Decimal	D	Fig. 4
LA-3610	Orange	Common Anode, Right-hand Decimal	A	Fig. 1
LA-3620	Orange	Common Anode, Left-hand Decimal	B	Fig. 2
LA-3630	Orange	Common Anode, ± 1 Overflow	C	Fig. 3
LA-3640	Orange	Common Cathode, Right-hand Decimal	D	Fig. 4
LA-3810	Yellow	Common Anode, Right-hand Decimal	A	Fig. 1
LA-3820	Yellow	Common Anode, Left-hand Decimal	B	Fig. 2
LA-3830	Yellow	Common Anode, ± 1 Overflow	C	Fig. 3
LA-3840	Yellow	Common Cathode, Right-hand Decimal	D	Fig. 4
LA-3910	High-Efficiency Red	Common Anode, Right-hand Decimal	A	Fig. 1
LA-3920	High-Efficiency Red	Common Anode, Left-hand Decimal	B	Fig. 2
LA-3930	High-Efficiency Red	Common Anode, ± 1 Overflow	C	Fig. 3
LA-3940	High-Efficiency Red	Common Cathode, Right-hand Decimal	D	Fig. 4

Figure 1

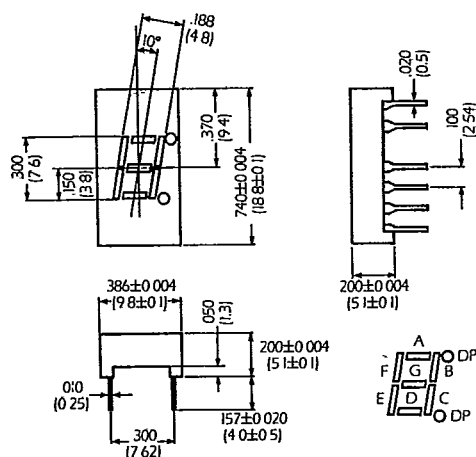


Figure 2

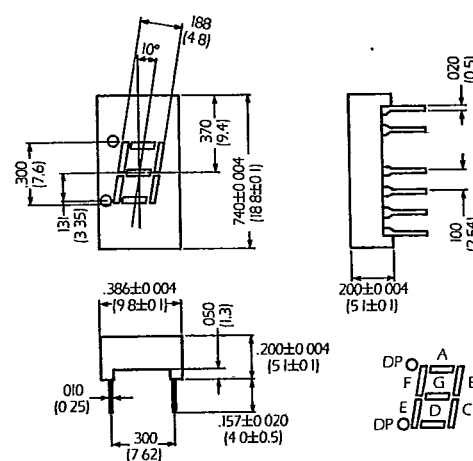


Figure 3

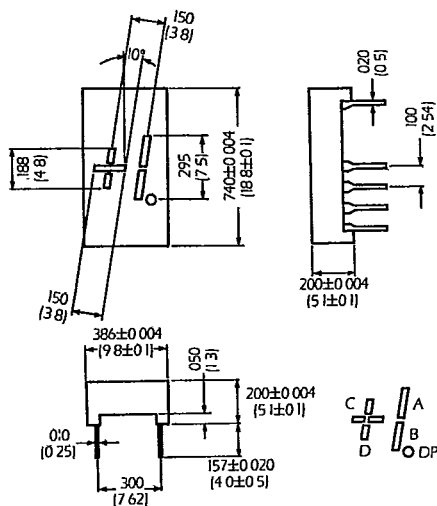
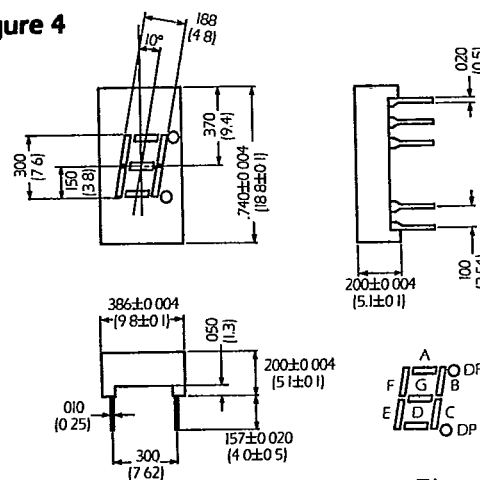


Figure 4



Dimensions: Inches (mm)

PIN CONNECTIONS

Electrical Connections

Pin No.	A LA-3X10/LA-71	B LA-3X20 LA-72	C LA-3X30/LA-73	D LA-3X40/LA-74
1	Cathode A	Cathode A	Anode C, D	Anode F
2	Cathode F	Cathode F	No pin	Anode G
3	Common anode	Common anode	Anode C, D	No pin
4	No pin	No pin	No pin	Common cathode
5	No pin	No pin	No pin	No pin
6	No Connection	Cathode DP	No pin	Anode E
7	Cathode E	Cathode E	Cathode D	Anode D
8	Cathode D	Cathode D	Cathode C	Anode C
9	Cathode DP	No Connection	No Connection	Anode DP
10	Cathode C	Cathode C	Cathode B	No pin
11	Cathode G	Cathode G	Cathode A	No pin
12	No pin	No pin	No pin	Common cathode
13	Cathode B	Cathode B	No pin	Anode B
14	Common anode	Common anode	Anode A, B	Anode A