

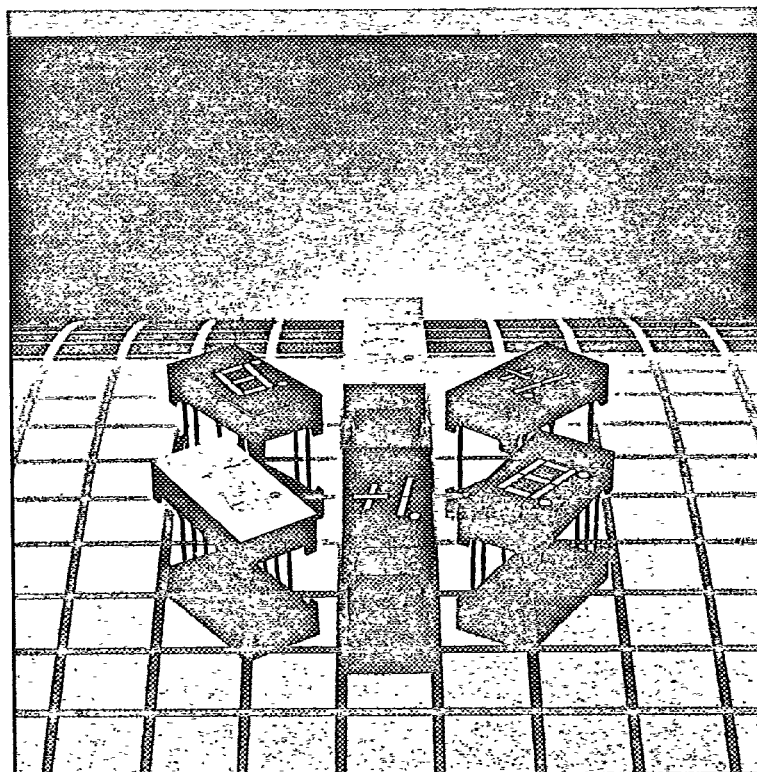
LA 70 & LA 3000 Series of .3" LED Displays

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	Red			Hi-Eff. Red			Orange			Yellow			Hi-Eff. Green			Unit
			LA 70 Series			LA 3900 Series			LA 3600 Series			LA 3800 Series			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

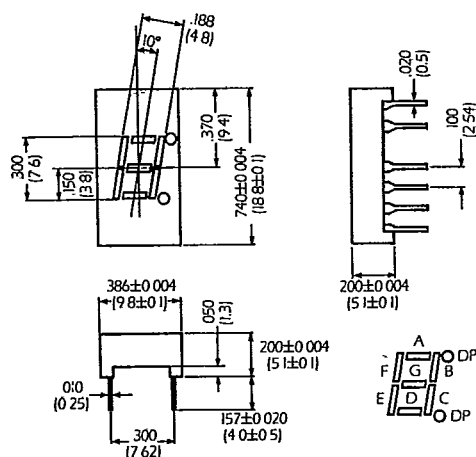


Figure 2

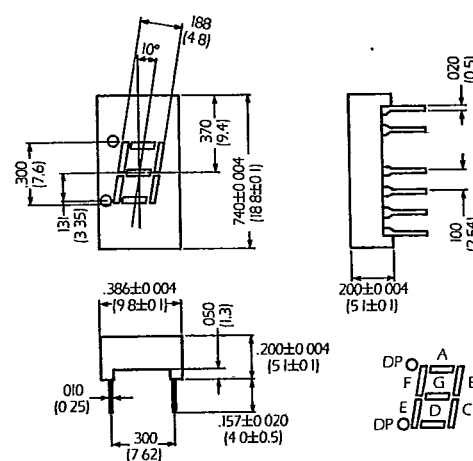


Figure 3

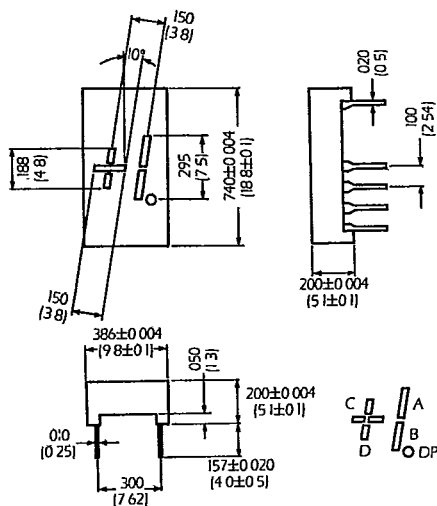
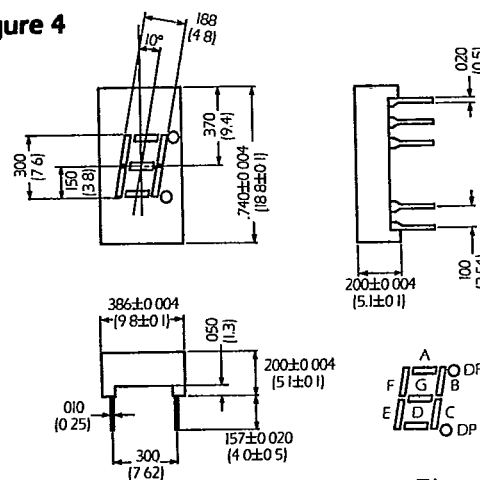


Figure 4



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