



DISPLAYS, INC.

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AR32250 - ALPHANUMERIC DISPLAY (.25" CHARACTER HEIGHT)

The AR32250 display is a thirty-two character, sixteen segment, alphanumeric display with decimal points. It is bright and readable in most ambient conditions. It's very thin and flat profile simplifies equipment design and assembly.

SPECIFICATIONS

Panel Size:	1.550 H x 5.000 W
Number of Characters:	38 Total (16 per row)
Vertical Character Spacing	.280" Center to Center
Horizontal Character Spacing	.450" Center to Center
Character Size	.250 N x .200 W

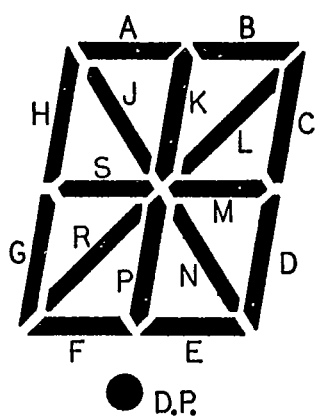
FEATURES

- All Glass Construction
- Minimal Connections
- Sunlight Readable
- High Reliability
- Completely Flat Design
- Neon Orange Color
- Excellent Contrast
- Wide Viewing Angle (140°)
- Thin Package (.3 inch)
- Low Power Consumption

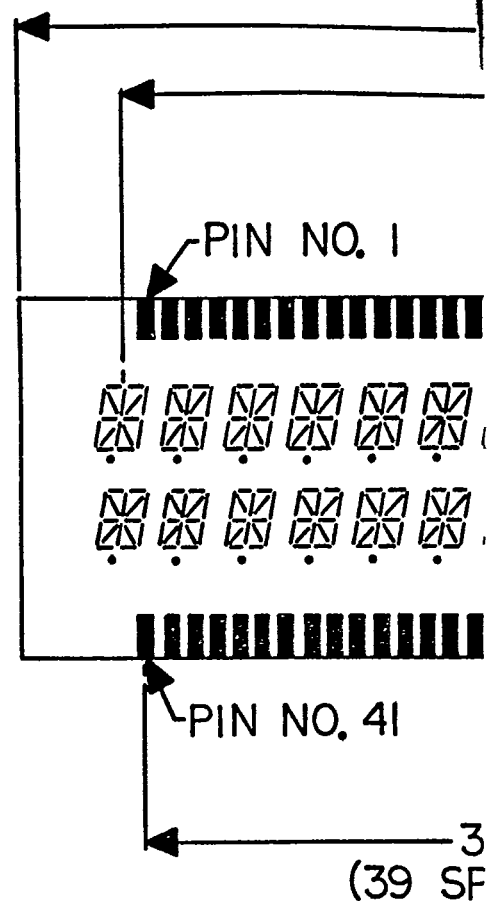
AR32250 DISPLAY

General Environmental Data

- Operating Altitude 0 to 70,000 ft.
- Operating Temperature 0° to 55° C
- Storage Temperature -40° to +85° C
- Relative Humidity (no cond.) 85% Max.
- Shock 50g ½ sinewave for 11 ms
- Vibration 2g, 50 to 2000 HZ

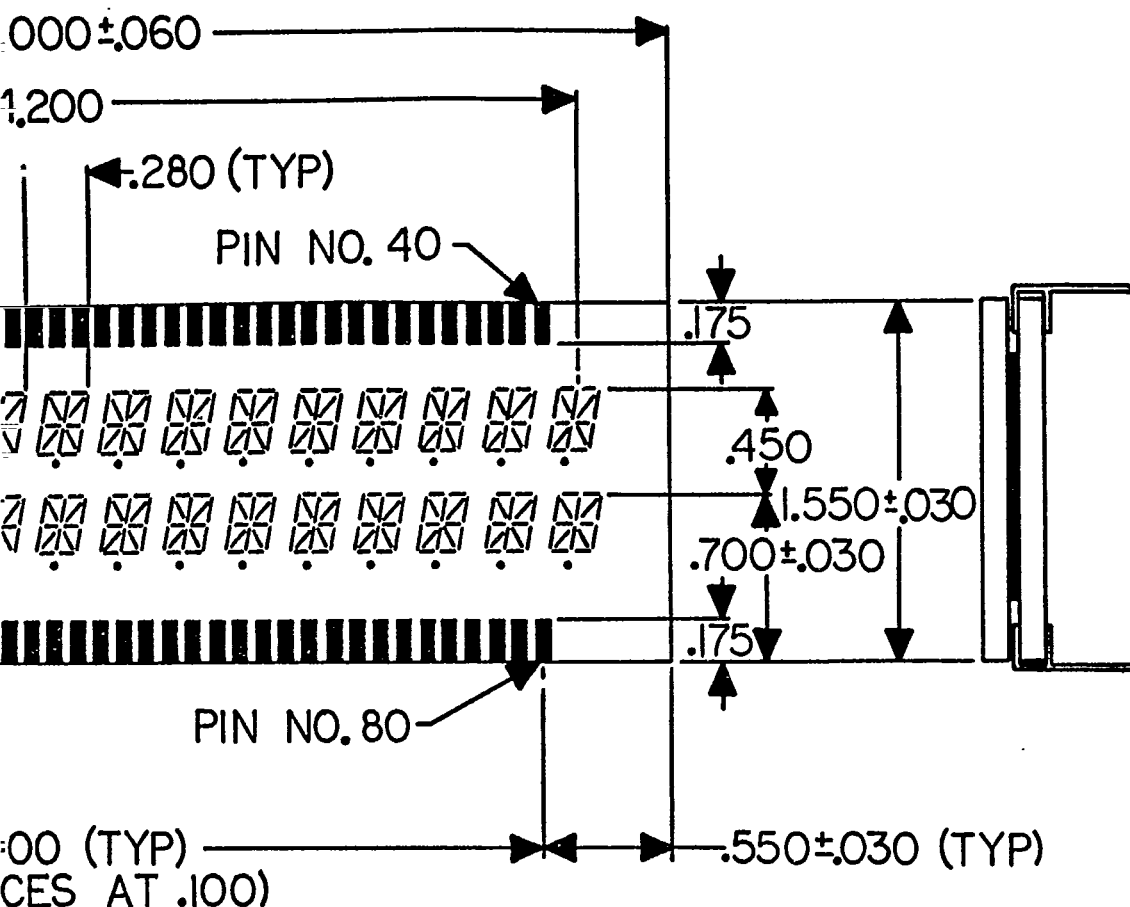


FONT DETAIL



PIN NO.	FUNCTION
1	Digit 1, Anode
2	Segment E, Cathode
3	Digit 2, Anode
4	Segment D, P, Cathode
5	Digit 3, Anode
6	Segment F, Cathode
7	Segment A, Cathode
8	Digit 4, Anode
9	N/C
10	Segment H, Cathode
11	Digit 5, Anode
12	Segment K, Cathode
13	Digit 6, Anode
14	Segment B, Cathode
15	Segment L, Cathode
16	Digit 7, Anode
17	N/C
18	Segment J, Cathode
19	Digit 8, Anode
20	Segment M, Cathode

PIN NO.	FUNCTION
21	N/C
22	Digit 9, Anode
23	Segment S, Cathode
24	N/C
25	Digit 10, Anode
26	Segment N, Cathode
27	Digit 11, Anode
28	N/C
29	Segment P, Cathode
30	Digit 12, Anode
31	N/C
32	Segment C, Cathode
33	Digit 13, Anode
34	Segment R, Cathode
35	N/C
36	Digit 14, Anode
37	Segment D, Cathode
38	Digit 15, Anode
39	Segment G, Cathode
40	Digit 16, Anode



PIN NO.	FUNCTION	PIN NO.	FUNCTION
41	Digit 17, Anode	61	Digit 25, Anode
42	Segment H, Cathode	62	N/C
43	Digit 18, Anode	63	Segment E, Cathode
44	Segment C, Cathode	64	Digit 26, Anode
45	Digit 19, Anode	65	Segment D, Cathode
46	Segment B, Cathode	66	Segment G, Cathode
47	Digit 20, Anode	67	Digit 27, Anode
48	Segment A, Cathode	68	Segment F, Cathode
49	Left K.A., Anode	69	Digit 28, Anode
50	Segment K, Cathode	70	Right K.A., Cathode
51	Digit 21, Anode	71	Right K.A., Anode
52	Left K.A., Cathode	72	Segment N, Cathode
53	Digit 22, Anode	73	Digit 29, Anode
54	Segment D.P., Cathode	74	Segment S, Cathode
55	N/C	75	Digit 30, Anode
56	Digit 23, Anode	76	Segment M, Cathode
57	Segment P, Cathode	77	Segment J, Cathode
58	N/C	78	Digit 31, Anode
59	Digit 24, Anode	79	Segment L, Cathode
60	Segment R, Cathode	80	Digit 32, Anode

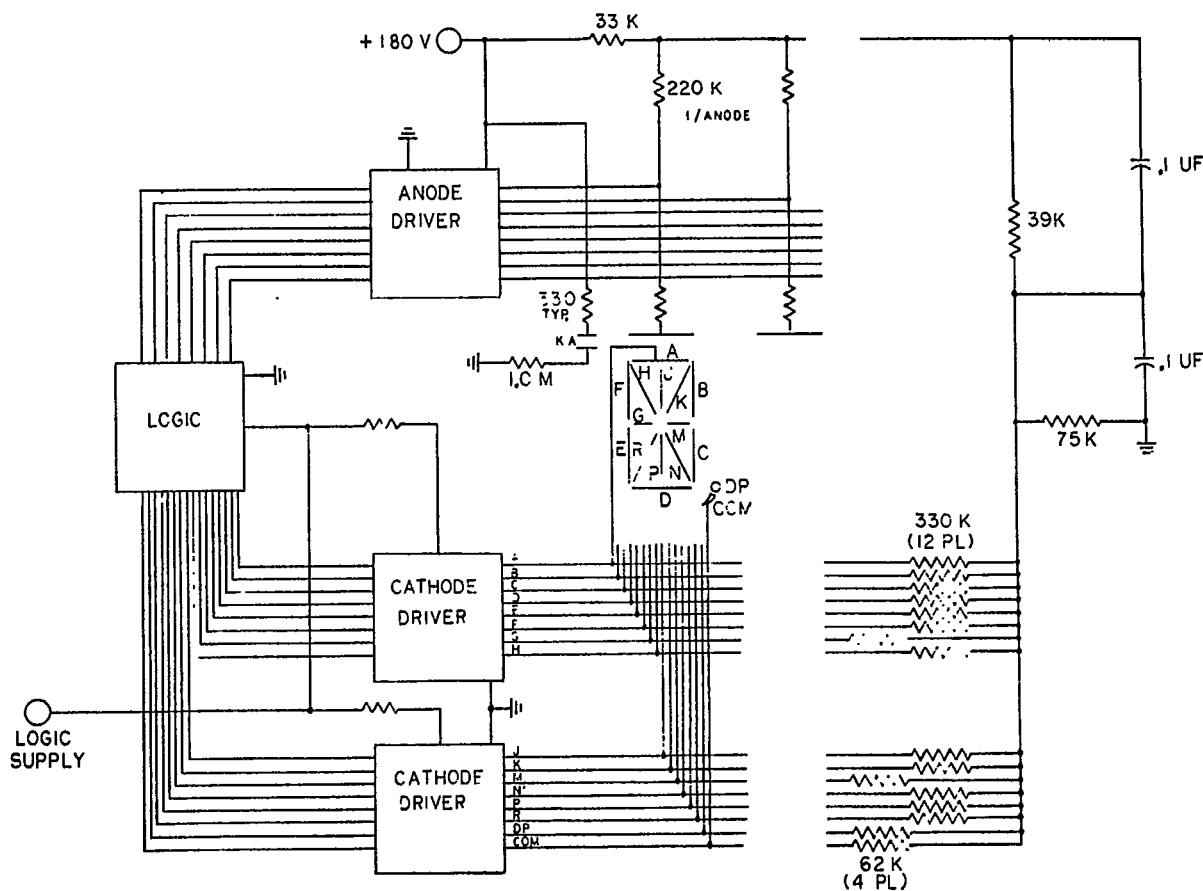
ELECTRICAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.
Anode Supply Voltage (1) (VDC)		190V	
Anode Voltage Swing (VDC)		60	
Anode-to-Cathode Voltage Drop (2) (VDC)		150	
Cathode Voltage Swing (typical anode supply voltage and segment current) (VDC)	50	80	
Cathode Current Segment c (1/20 duty cycle) (3) (mA _{dc})	2.50	3.12	
Keep Alive (4) (mA _{dc})		156	
Anode On Time (mms)	200	350	
Interdigit Blanking Time (2) (mms)	25	40	50
Refresh Period (4) (mms)			10
Operating Temperature (°C)	-10		+70
Storage Temperature (°C)	-40		+70

NOTES:

1. Maximum voltage generally depends on breakdown voltage of cathode drivers.
2. Cathode current at segment b of 5.6 mA_{dc}, 1/20 duty cycle.
3. For uniform segment brightness, currents should be proportionally set according to respective segment areas. Ratio other segments against segment b (the minimum current specified for segment b is the lowest which will produce an even glow).
4. Keep alive is recommended for all circuits, but required if refresh period exceeds 3 ms.

The AR32250 display is made for multiplexed operation. Anode and cathode drivers are available including Spragues UDN5810 and UDN-5823. A typical driving circuit is shown below.



Displays, Inc. can also supply custom screen printed displays if you have a specific need not met by any of our standard displays. Please call your local Displays, Inc. representative or our plant for your specific requirements.