



# .5" FLUORESCENT DISPLAY

5LT43

## ELECTRICAL PIN CONNECTIONS

### PIN NUMBER

### ELECTRICAL CONNECTION

1	F1
2	No Pin
3	NC
4	G4
5	d
6	e
7	...
8	G4
9	a
10	G3
11	Colon 1
12	NC
13	NC
14	G3
15	b
16	Gc
17	c
18	g
19	G2
20	NC
21	NC
22	UB
23	G2
24	Colon 2
25	Q1
26	LB
27	MC
28	NC
29	G1
30	NC
31	No Pin
32	F2

### SCOPE

This specification covers the requirements for a flat glass multi-digit vacuum fluorescent display. A digit consists of seven segments. Top and bottom rows of indicator bars or other characters will appear where applicable. The display is a direct heating filament display with anode character selection.

### 1. Features:

The device S-3088 is 4-digit fluorescent display panel. In addition to the 4 numerals, the display features 10 bar indicators and a colon indicator. It is ideal for use in timer clock and other such appliances.

Color of Illumination : Blue-green

### 2. Outer Dimension and Segment Pattern : As per next page.

### 3. Maximum Electrical Ratings:

	Symbol	min.	max.	Unit
Filament Voltage	Ef	2.7	3.3	Vac
Anode, Grid Voltage	ab,ac	-	34.0	Vp-p
Operating Temperature	Topr	-20	+70	C
Storage Temperature	Tstg	-55	+80	C

### 4. Recommended Operating Conditions:

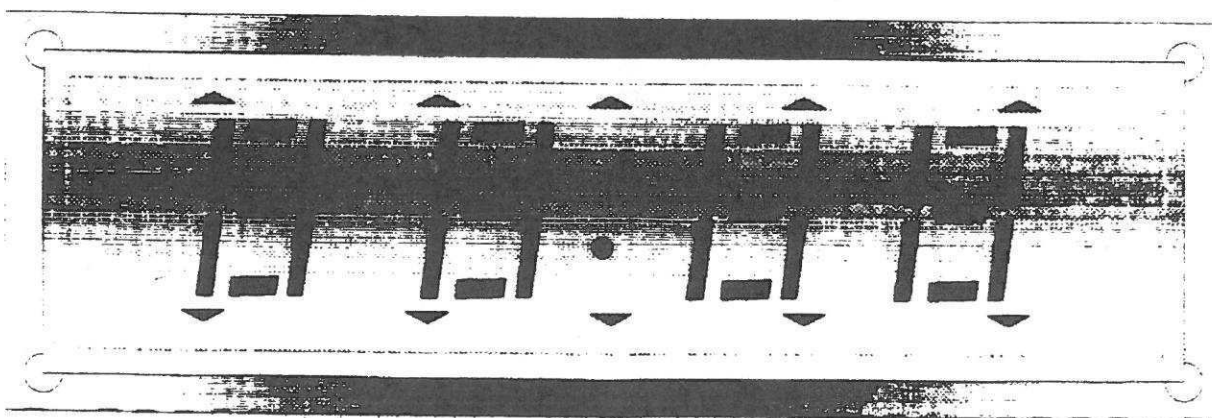
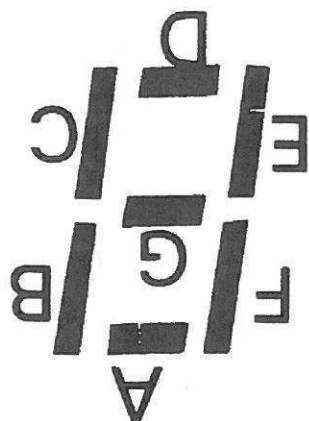
	Symbol		Unit
Filament Voltage	Ef	3.0	Vac
Anode, Grid Voltage	ab,ac	26.0	Vp-p
Cathode Bias	*Ek	4.0	Vdc
Duty Factor	Du	1/7.5	-
Pulse Width	tp	-	μs
Brightness	L	180	fc-L

### 5. Electrical Characteristics:

	(Symbol)	Test Conditions	min.	typ.	max.	Unit
Filament Current	(If)	Ef= 3.0 Vac	108	120	132	mA
Anode Current	(Ib/dig)	Ef= 3.0 Vac	-	9.5	9.4	mA
COLON		abb,acc= 30.0 Vp-p	-	2.2	3.0	mA
		*Ek= 4.0 Vdc	-	-	-	-
Grid Current	(Ic/dig)	Du= 1/7.5	-	10.5	17.5	mA
		tp= 80 μs	-	5.0	8.5	mA
Brightness	(L)		90	100	-	fc-L
Grid Cut-off Voltage	(Ecco)	Ef= 3.0 Vac, Ec= vary Eb= 26 Vdc	-6.5	-5.0	-	Vdc
Anode Cut-off Voltage	(Ebco)	Ef= 3.0 Vac, Eb= vary Ec= 26 Vdc	-3.0	-1.5	-	Vdc

Ek indicated \* mark is supplied to the center tap of the filament transformer. THIS IS NOT A FINAL SPECIFICATION, AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

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F1 1 NP NC G4 D E F G4 A G3 CL1 NC NC G3 B GC C G G2 NC NC UB G2 COL2 G1 LB MC NC G1 NC NP 32 F2

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