



User's Guide

C-25-0708

VFD

(Vacuum Fluorescent Character Display Module)

For product support, contact

New haven Display International
2511 Technology Drive #101
Elgin , IL 601 24
Tel: (847) 8 44-8795 Fax: (847) 8 44-8796

October 31, 2006

Vacuum Fluorescent Display Specification

PART NUMBER: C-25-0708

FEATURES: 9 Digits, Alphanumeric, 7-Segments with fixed Icons – P.O.S

APPLICATION: Character Display (*Alpha + 7 Seg*)

RATINGS: Below

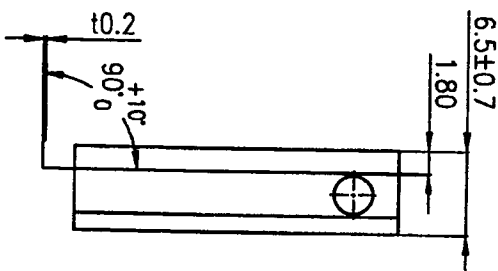
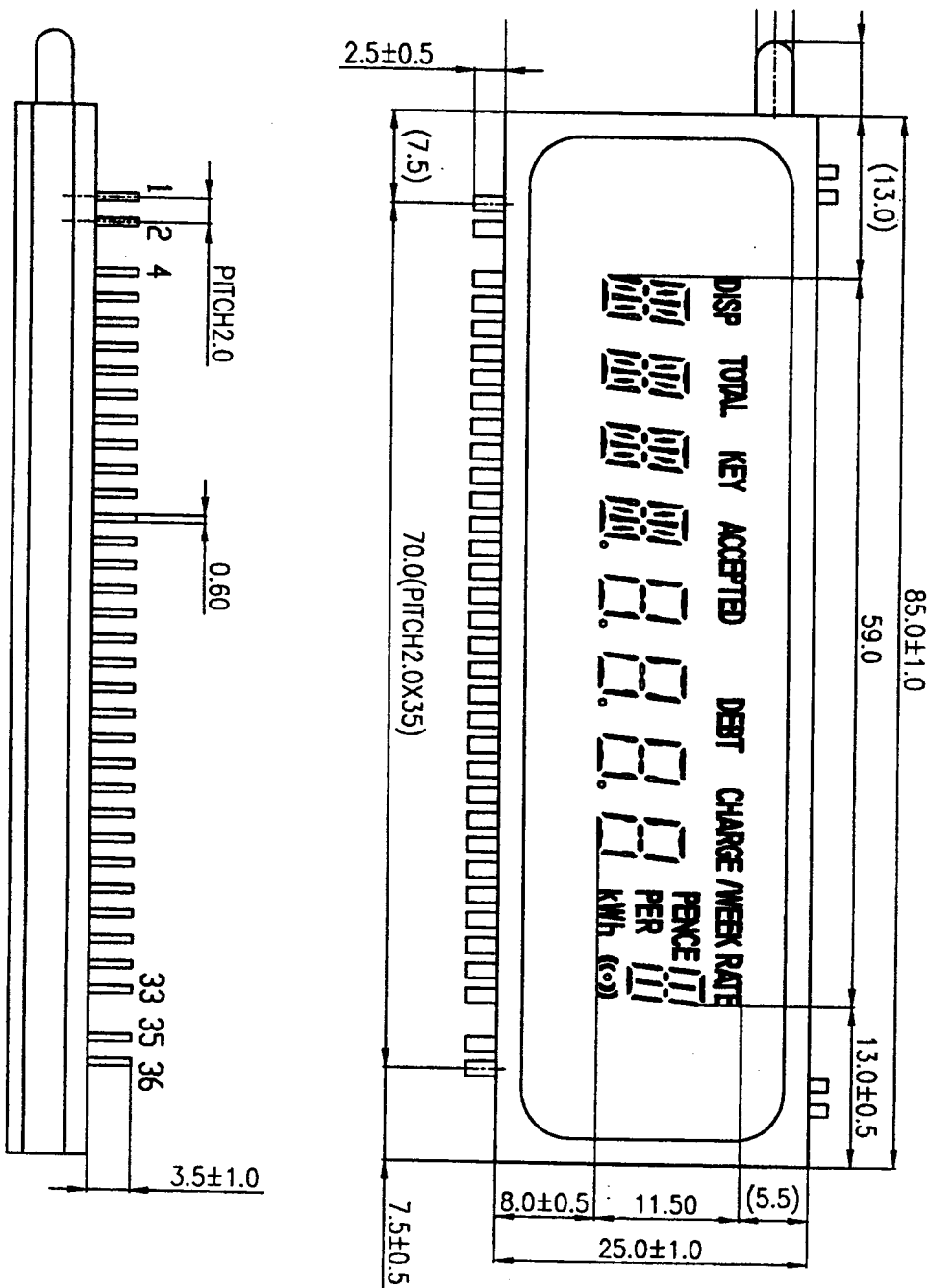
Outer Dimensions	Panel Length	P.L.	85.0	mm	
	Panel Height	P.H.	25.0	mm	
	Panel Thickness	P.T.	6.5	mm	
Leads	Lead Pitch	L.P.	2.0	mm	
	Lead Out	-	SIL		
Character Size	Character Height	C.H.	7.0	mm	
	Character Width	C.W.	4.3	mm	
Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	2.79	3.1	3.41	Vac
Peak Grid Voltage	ec	-	27.0	30.0	Vp-p
Peak Anode Voltage	eb	-	27.0	30.0	Vp-p
-	-	-	-	-	-
Duty Cycle	Du	-	1/ 8	-	-
Pulse Width	tp	-	140	-	uS
Operating Temperature	Topr	-20	-	+ 70	C
Storage Temperature	Tstg	-55	-	+ 80	C
Color of Illumination	Green				

Electrical Characteristics

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	If -	Ef = 3.1 Vac eb = ec = 0	96.0 -	107.0 -	118.0 -	mAac -
Anode Current	ib/1G ib/2,3,4G lb/5,6,7G - -	Ef = 3.1 Vac eb = 27.0 Vp-p ec = 27.0 Vp-p Du = 1/8 tp = 140 uS	-	12.0	24.0	mA _{p-p}
			-	8.0	16.0	mA _{p-p}
			-	5.0	10.0	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
Grid Current	ic/1G ic/2,3,4G lc/5,6,7G - -		-	12.0	24.0	mA _{p-p}
			-	8.0	16.0	mA _{p-p}
			-	5.0	10.0	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
Luminance	L(G) -		500 (146)	1000 (292)	-	cd/m ² fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 3.1 Vac Eb = 27.0 Vdc	-5.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 3.1 Vac ec = 27.0 Vp-p Du = 1/8 tp = 140 uS	-2.5	-	-	Vdc

* Drive Mode is Dynamic State

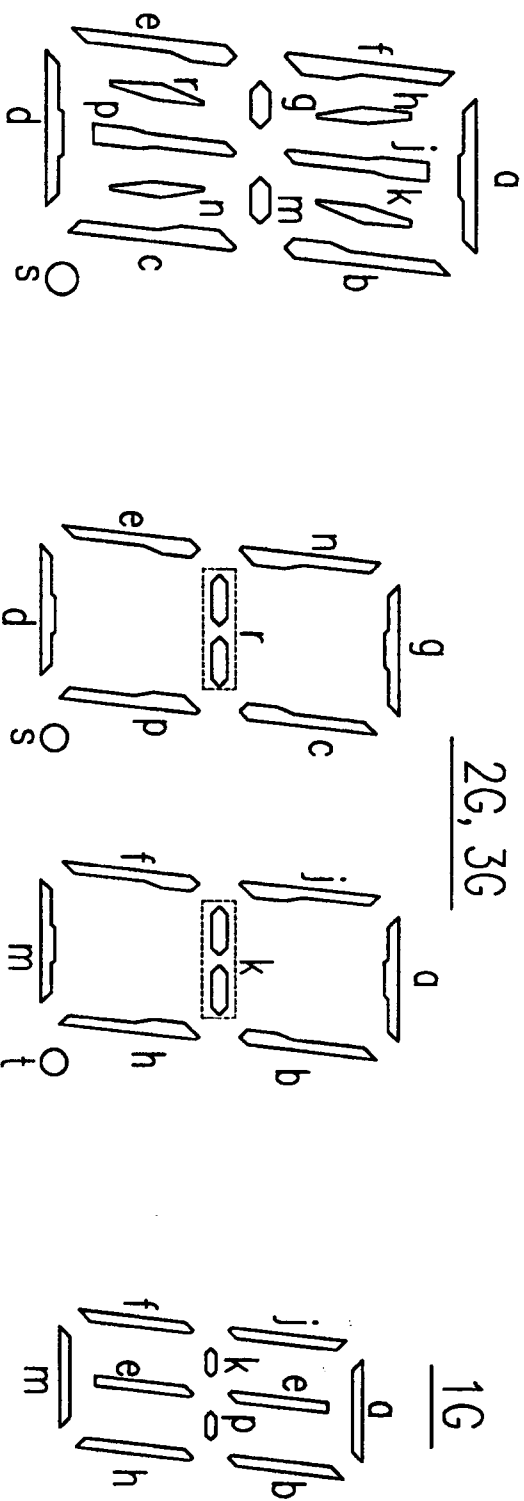
OUTLINE DRAWING (UNIT: mm)



LEAD DETAIL

<Grid Assignment and Segment Design>

	7C	6C	5C	4C	3C	2C	1C
t DISP							
t TOTAL							
t KEY							
t ACCEPTED							
t DEBT							
t CHARGE							
s WEEK RATE d							
PENCE PER kWh r ((∞))							



《Color of illumination》

(Green X=0.250,Y=0.440)

(TERMINAL CONNECTION)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Connection	F	F	NP	P (k)	7G	P (j)	P (b)	6G	P (a)	P (h)	5G	P (f)	P (m)	4G	P (t)	NC	3G	NC	NC
Pin No.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Connection	NC	3G	P (s)	2G	P (d)	P (e)	P (p)	2G	P (r)	1G	P (n)	P (c)	P (g)	1G	NP	F	F		

F: Filament G: Grid NP: No Pin P: Anode NC: No Connection