



User's Guide

D0111LT-33-1101

VFD

(Vacuum Fluorescent Display Character Module)

For product support, contact

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Vacuum Fluorescent Display Specification

PART NUMBER: D0111LT-33-1101

FEATURES: 11 Digits, 7-Segmented, Instrumentation, Scales

APPLICATION: Character Display (*7-Segmented*)

RATINGS: Below

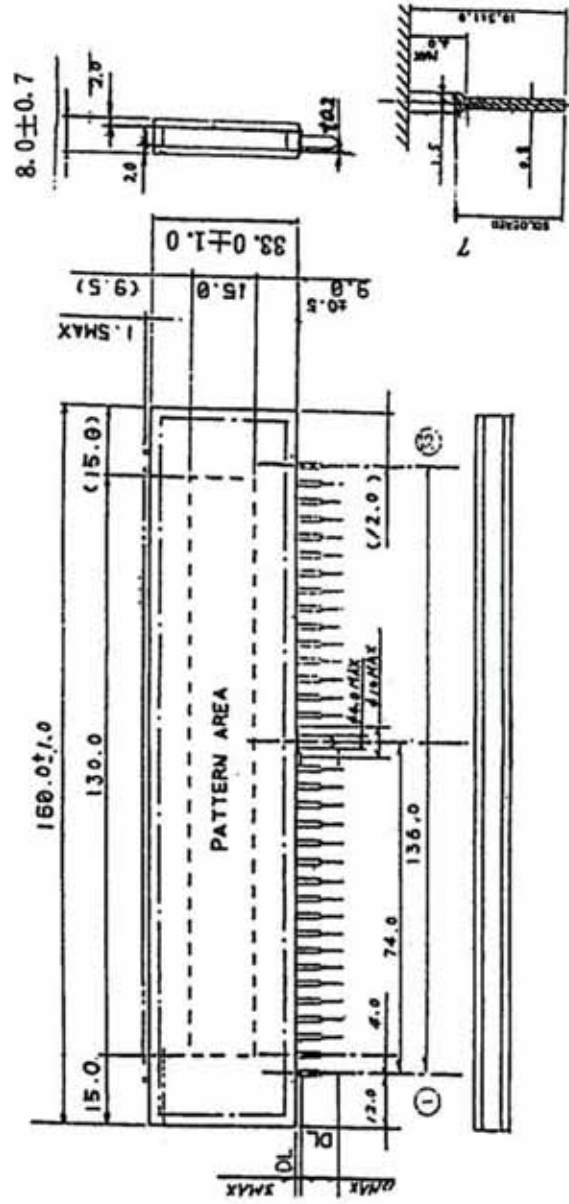
Outer Dimensions	Panel Length	P.L.	160.0	mm	
	Panel Height	P.H.	33.0	mm	
	Panel Thickness	P.T.	8.0	mm	
Leads	Lead Pitch	L.P.	4.0	mm	
	Lead Out	-	SIL		
Character Size	Character Height	C.H.	12.5	mm	
	Character Width	C.W.	6.3	mm	
Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	5.5	6.1	6.7	Vac
Peak Grid Voltage	ec	-	28.0	36.0	Vp-p
Peak Anode Voltage	eb	-	28.0	36.0	Vp-p
Life	tp	10,000	-	-	Hrs
Duty Cycle	Du	-	1/12.5	-	-
Pulse Width	tp	-	80	-	uS
Operating Temperature	Topr	-10	-	+ 60	C
Storage Temperature	Tstg	-40	-	+ 70	C
Color of Illumination	Green				

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**Electrical
Characteristics**

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	if	Ef = 6.1 Vdc	117.0	130.0	143.0	mAdc
	-	eb = ec = 0	-	-	-	-
Anode Current	ib/1G~11G	Ef = 6.1 Vac	-	8.0	17.0	MAp-p
	-	eb = 28.0 Vp-p	-	-	-	MAp-p
	-	ec = 28.0 Vp-p	-	-	-	MAp-p
	-	Du = 1/12.5	-	-	-	MAp-p
	-	tp = 80 uS	-	-	-	MAp-p
Grid Current	ic / 1G~11G	All Segments Lit	-	11.0	18.1	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
Luminance	L(G)		343	686	-	cd/m ²
	-		(100)	(200)		fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 6.1 Vdc eb = 28.0 Vdc All Segments Lit	-7.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 6.1 Vac ec = 28.0 Vp-p Du = 1/12.5 tp = 80uS	-7.0	-	-	Vdc

OUTLINE DRAWING (UNIT :mm)

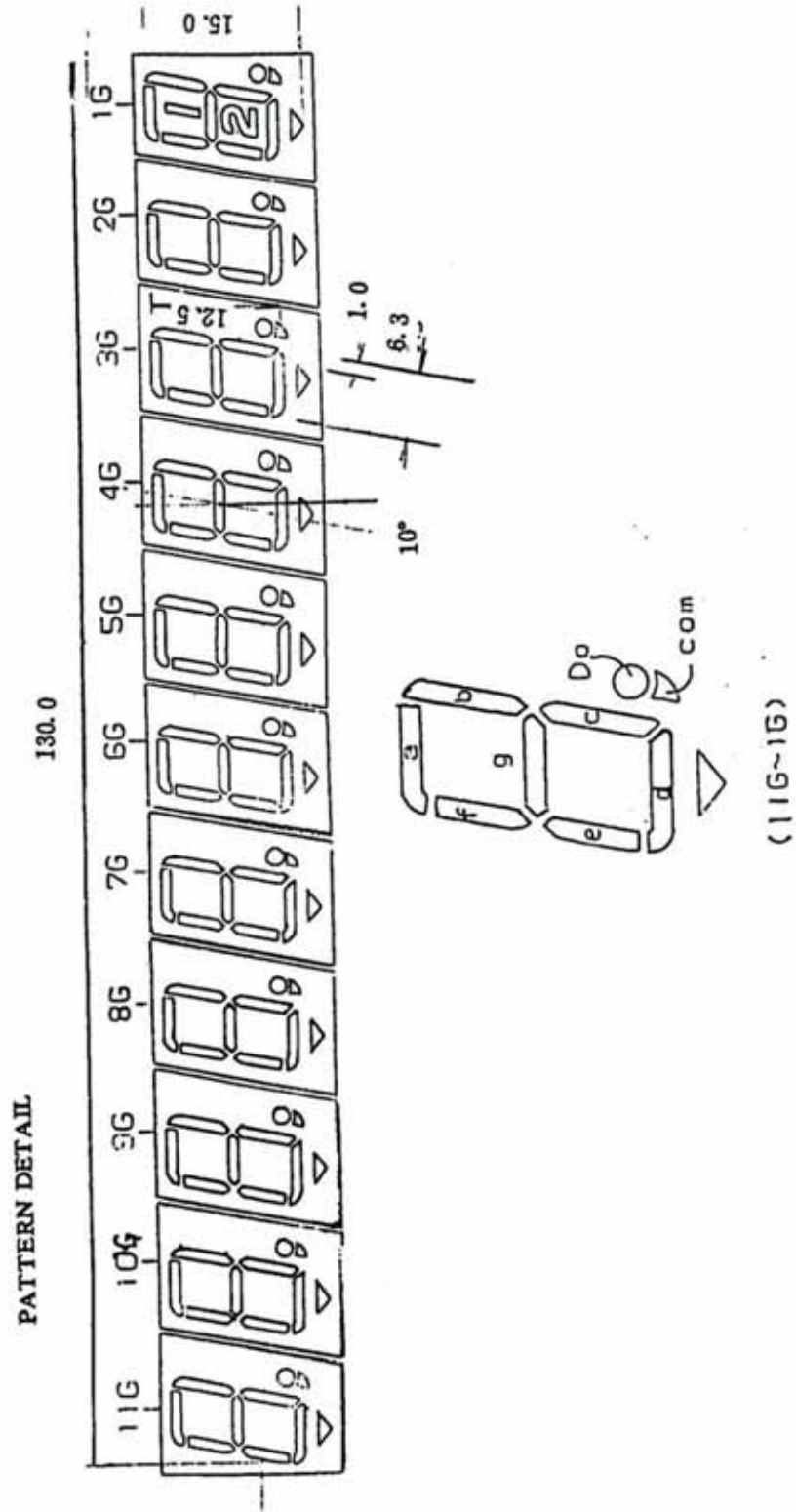


TERMINAL CONNECTION

TERMINAL NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
ELECTRODE	F	NC	11G	NC	P7	10G	P6	P5	9G	P4	P9	8G	P10	P14	7G	P13	P12	5G	P11	P8	4G	P3	P2	3G	NC	P1	2G	P15	P15	1G	NC	F	

Notes:

- F: Filament
- G: Grid
- P: Anode
- NC: Connection



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a	a	a	a	a
P2	b	b	b	b	b	b	b	b	b	b	b
P3	c	c	c	c	c	c	c	c	c	c	c
P4	d	d	d	d	d	d	d	d	d	d	d
P5	e	e	e	e	e	e	e	e	e	e	e
P6	f	f	f	f	f	f	f	f	f	f	f
P7	g	g	g	g	g	g	g	g	g	g	g
P8	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp
P9	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM
P10	-	▽	▽	-	▽	▽	-	▽	▽	-	▽
P11	-	-	-	-	-	-	-	-	-	▽	-
P12	-	-	-	-	-	-	▽	-	-	-	-
P13	-	-	-	▽	-	-	-	-	-	-	-
P14	▽	-	-	-	-	-	-	-	-	-	-
P15	-	-	-	-	-	-	-	-	-	-	g
P16	-	-	-	-	-	-	-	-	-	-	g