

User's Guide

D0220LD-48-4002F

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

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Vacuum Fluorescent Display Specification

PART NUMBER: D0220LD-48-4002F

FEATURES: 2 Row x 20 Digits, 5x7 Dot Matrix with Decimal, Comma, Carrot - P.O.S

APPLICATION: Character Display (*Dot Matrix*)

RATINGS: Below

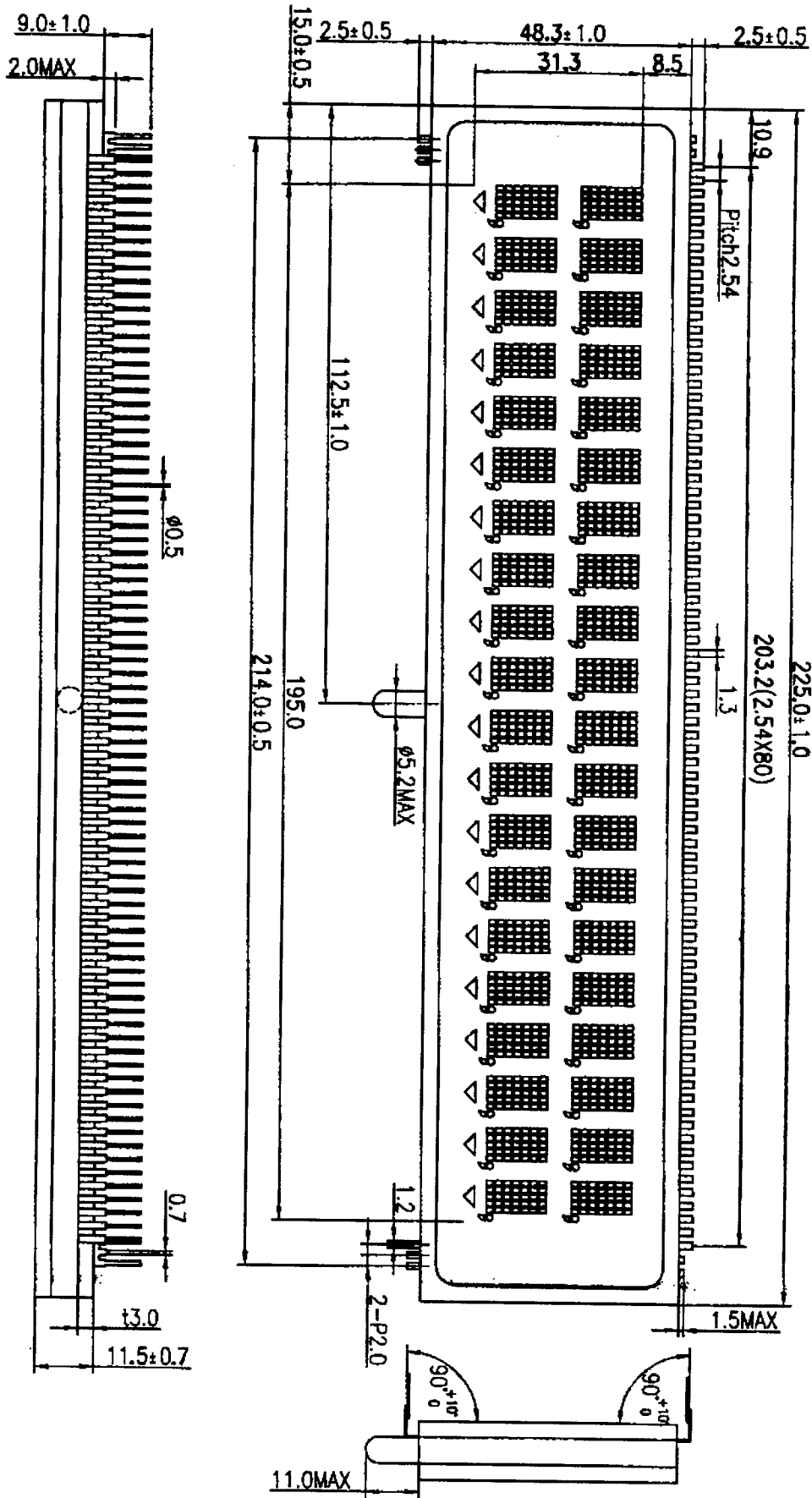
Outer Dimensions	Panel Length	P.L.	225.0	mm	
	Panel Height	P.H.	48.3	mm	
	Panel Thickness	P.T.	11.5	mm	
Leads	Lead Pitch	L.P.	2.54	mm	
	Lead Out	-	SIL		
Character Size	Character Height	C.H.	11.2	mm	
	Character Width	C.W.	6.1	mm	
Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	7.6	8.4	9.2	Vac
Peak Grid Voltage	ec	-	45.0	54.0	Vp-p
Peak Anode Voltage	eb	-	45.0	54.0	Vp-p
-	-	-	-	-	-
Duty Cycle	Du	-	1/ 50	-	-
Pulse Width	tp	-	80	-	uS
Operating Temperature	Topr	-40	-	+ 85	C
Storage Temperature	Tstg	-55	-	+ 85	C
Color of Illumination	Green				

**Electrical
Characteristics**

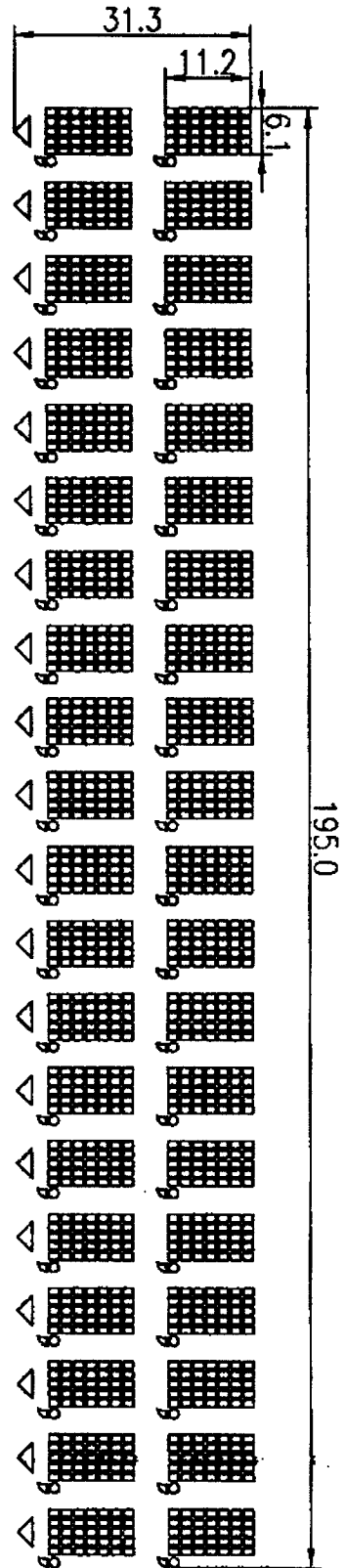
Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	lf	Ef = 8.4 Vac	270.0	300.0	330.0	mAac
	-	eb = ec = 0	-	-	-	-
Anode Current	ib/1~20G	Ef = 8.4 Vac eb = 45.0 Vp-p ec = 45.0 Vp-p Du = 1/50	-	17.0	29.0	mAdc
	lb/21~40G		-	18.0	30.0	mAdc
	-		-	-	-	mAdc
	-		-	-	-	mAdc
	-		-	-	-	mAdc
Grid Current	ic/1~20G		-	15.0	25.0	mAdc
	lc/21~40G		-	16.0	26.0	mAdc
	-		-	-	-	mAdc
	-		-	-	-	mAdc
	-		-	-	-	mAdc
Luminance	L(G)		400	850	-	cd/m ²
	-		(117)	(248)	-	fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 8.4 Vac Eb = 45.0 Vdc	-9.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 8.4 Vac ec = 45.0 Vp-p Du = 1/50	-6.0	-	-	Vdc

Drive Mode is Dynamic State.

Outline Drawing (Unit : mm)



Display Pattern and Grid Assignment



Color : Green

G20	G19	G18	G17	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1
G40	G39	G38	G37	G36	G35	G34	G33	G32	G31	G30	G29	G28	G27	G26	G25	G24	G23	G22	G21

