

User's Guide

D0120MY-29-2001

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

For product support, contact

Newhaven Display International
2511 Technology Drive, #101
Elgin, IL 60124
Tel: (847) 844-8795 Fax: (847) 844-8796

February 26, 2008

Vacuum Fluorescent Display Specification

PART NUMBER: D0120 MY- 29-2001

FEATURES: 20 Digits, Alphanumeric

APPLICATION: Character Display (Alphanumeric)

RATINGS: Below

Outer Dimensions	Panel Length	P.L.	205.0	mm	
	Panel Height	P.H.	29.0	mm	
	Panel Thickness	P.T.	8.5	mm	
Leads	Lead Pitch	L.P.	2.54	mm	
	Lead Out	-	SIL		
Character Size	Character Height	C.H.	11.0	mm	
	Character Width	C.W.	5.5	mm	
Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	7.65	8.5	9.35	Vac
Peak Grid Voltage	ec	65.0	70.0	75.0	Vp-p
Peak Anode Voltage	eb	65.0	70.0	75.0	Vp-p
Cut-off Bias	Ek	-	-	-	-
Duty Cycle	Du	-	1/ 21	-	-
Pulse Width	tp	-	400	-	uS
Operating Temperature	Topr	-40	-	+ 85	C
Storage Temperature	Tstg	-50	-	+ 95	C
Color of Illumination	Green				

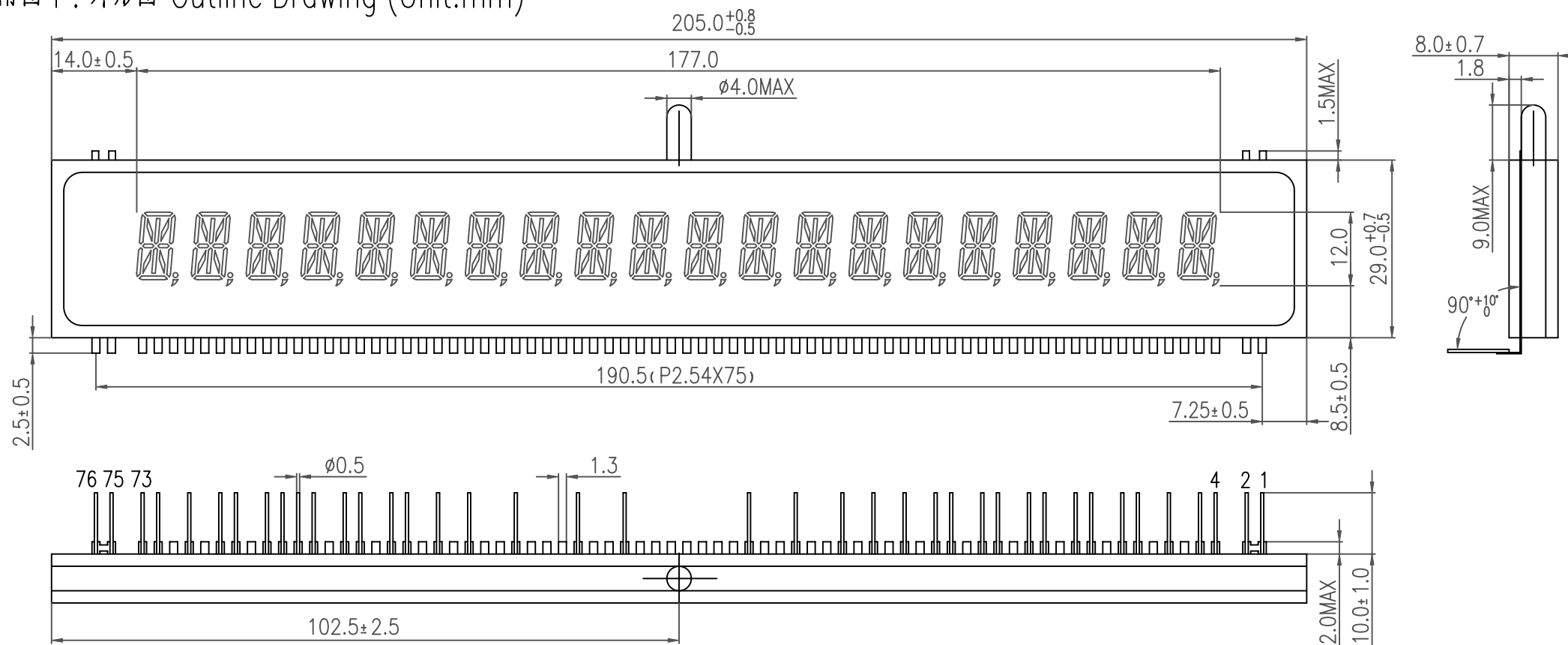
NOTE: Re-enforced Grid and Filament structure will support +10,000 Hours of operation until 1/2 brightness.

**Electrical
Characteristics**

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	If -	Ef = 8.5 Vac eb = ec = 0	121.5 -	135.0 -	148.5 -	mAac -
Anode Current	ib/1~20G - - - -	Ef = 8.5 Vac eb = 70.0 Vp-p ec = 70.0 Vp-p Du = 1/21 tp = 400 uS	- - - - -	20.0 - - - -	40.0 - - - -	mAp-p mAp-p mAp-p mAp-p mAp-p
Grid Current	ic/1~20G - - - -	All Segs are lit	- - - - -	25.0 - - - -	50.0 - - - -	mAp-p mAp-p mAp-p mAp-p mAp-p
Luminance	L(G) -		350 (102)	700 (204)	-	cd/m ² fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 8.5 Vac Eb = 70.0 Vdc	-9.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 8.5 Vac ec = 70.0 Vp-p Du = 1/21 tp = 400 uS	-9.0	-	-	Vdc

* Drive Mode is Dynamic State

附图1：外形图 Outline Drawing (Unit:mm)



PIN CONNECTION (管脚连接)

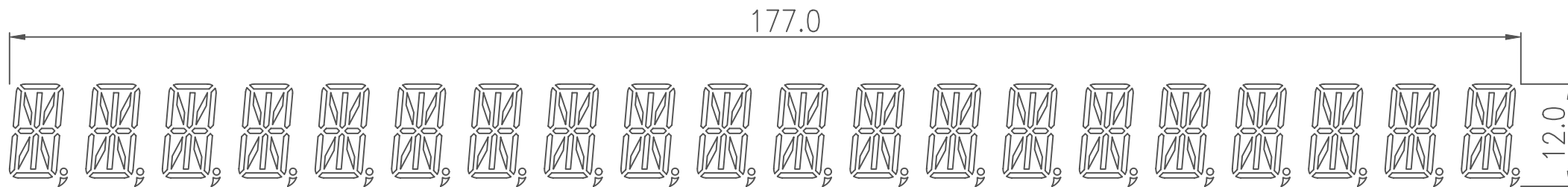
TERMINAL No. (端子序号)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ELECTRODE (连接)	F	F	NP	a	1G	NX	b	NX	2G	j	NX	3G	k	NX	4G	n	NX	p	5G	NX	r	6G	NX	Com	NX	7G
TERMINAL No. (端子序号)	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
ELECTRODE (连接)	NX	8G	NX	NX	9G	NX	NX	10G	NX	NX	NX	NX	NX	NX	11G	NX	NX	12G	NX	NX	NX	13G	NX	NX	14G	
TERMINAL No. (端子序号)	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76		
ELECTRODE (连接)	NX	DP	NX	15G	d	NX	16G	c	NX	e	17G	m	18G	NX	g	19G	NX	f	NX	20G	h	NP	F	F		

Notes(注): F: Filament (灯丝) G: Grid (栅极) P: Anode (阳极)

NX: No Extended (无外接脚) NP: No Pin (无引出脚)

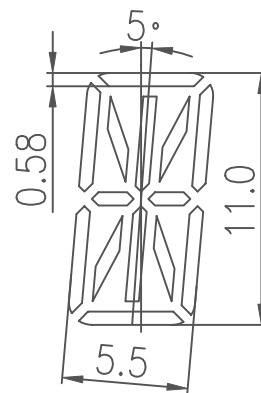
control No.	QG/ZB0E 025.07.3-05
Spec. No.	SPC05.04.01-02
MODEL	D0120MY-29-2001

附图2：显示内容 Display Pattern



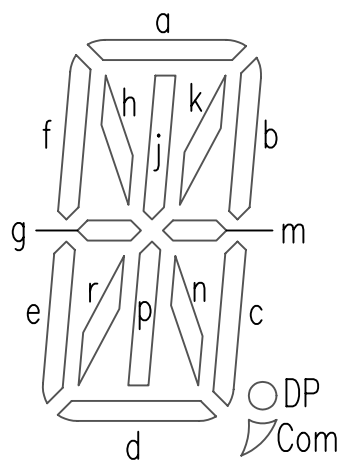
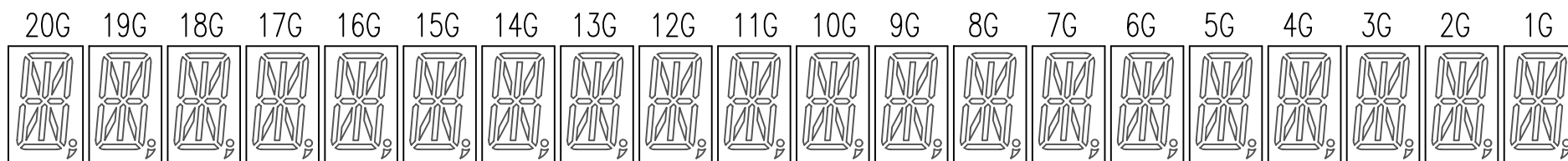
显示颜色 (Color of illumination):

绿色 Green: X=0.250 Y=0.440 全部 ALL



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附图3: 栅网分割 Grid Assignment



(1G~20G)

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