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### 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

	Panel Length		P.L.	205.0	mm
Outer Dimensions	Panel Height		P.H.	29.0	mm
	Panel Thickne	ess	P.T.	8.5	mm
Leads	Lead Pitch		L.P.	2.54	mm
	Lead Out		-	SIL	
Cha racter Size	Ch aracter H e	ight	C.H.	11.0	mm
	Character Wi	dth	C.W.	5.5	mm
Item	Sy mbol	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	Du	-	1/21	-	-
Cycle					
Pulse Width	tp	-	400	-	uS
Operating Temperature	Topr	-40	-	+ 85	С
Storage Temperature	Tstg	-50	-	+ 95	С
Color of Illumination			Green		

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

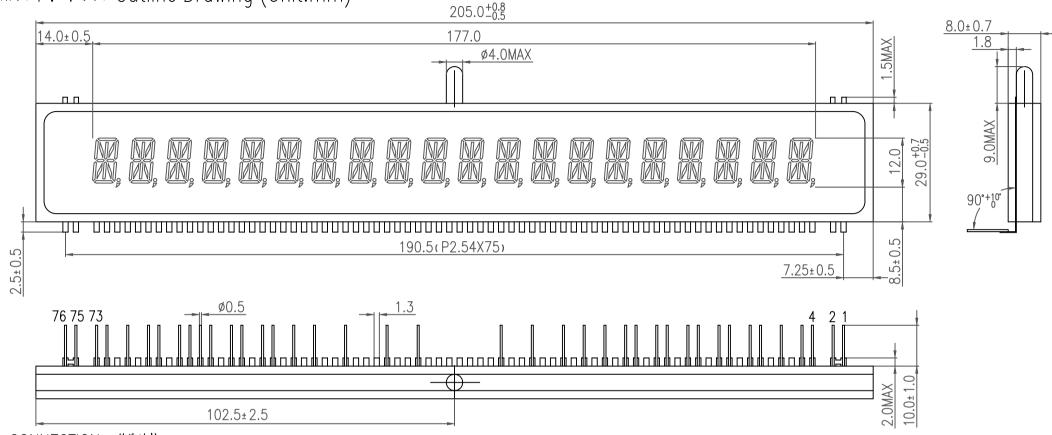
### D0120MY-29-2001

#### Electrical Characteristics

Item	Symbol			Typical		Unit
Filomont Comment						
Filement Ourse						
Filament Current	lf	Ef = 8.5 Vac	121.5	135.0	148.5	mAac
	-	eb = ec = 0	-	-	-	-
Anode Current	ib/1~20G	Ef = 8.5 Vac	-	20.0	40.0	mAp-p
	-	eb = 70.0 Vp-p	-	-	-	mAp-p
	-	ec = 70.0 Vp-p	-	-	-	mAp-p
	-	Du = 1/21	-	-	-	mAp-p
		tp = 400 uS	-	-	-	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
	L(G)		350	700	-	cd/m <sup>2</sup>
Luminance	-		(102)	(204)		fL
	Lmin/Lmax					
Luminance Ratio			50	-	-	%
	Ecco	Ef = 8.5 Vac				
Grid Cut-off Voltage		Eb = 70.0 Vdc	-9.0	-	-	Vdc
1		l=c 0.5.v				
Anada Cut off Valtaria	Ebco	Ef = 8.5 Vac	0.0			\/da
Anode Cut-off Voltage		ec = 70.0 Vp-p Du = 1/21	-9.0	-	-	Vdc
		tp = 400 uS				
		ip - 400 uo		]		

<sup>\*</sup> Drive Mode is Dynamic State





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	а	1G	NX	р	NX	2G	j	NX	3G	k	NX	4G	n	NX	р	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	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	С	NX	е	17G	m	18G	NX	g	19G	NX	f	NX	20G	h	NP	F	F		

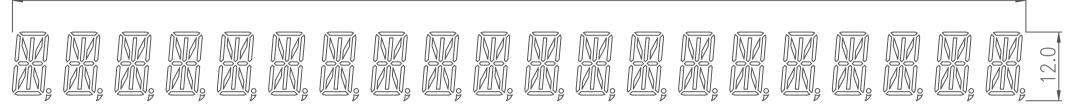
Notes(注): F: Filament (灯丝) G: Grid (栅极) P: Anode (阳极)

NX: No Extented (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

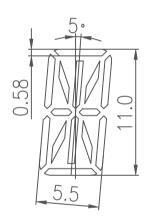
附图2:显示内容 Display Pattern





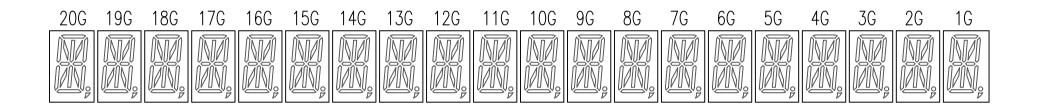
显示颜色 (Color of illumination):

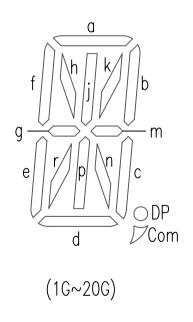
绿色 Green: X=0.250 Y=0.440 全部 ALL



control No.	QG/ZB0E 025.07.3-05
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附图3:栅网分割 Grid Assignment





control No.	QG/ZB0E 025.07.3-05
Spec. No.	SPC05.04.01-02
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