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User's Guide

C40-1405



-For product support, contact

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October 31, 2006



Vacuum Fluorescent Display Specification

PART NUMBER: C40-1405

FEATURES: 140 Segments- 14 x 10 Dot Matrix Grid

APPLICATION: Elevator

RATINGS: Below

	Panel Length	1	P.L.	65.2	mm				
Outer Dimensions	Panel Height		P.H.	40.0	mm				
	Panel Thickn	iess	P.T.	9.0	mm				
Leads	Lead Pitch		L.P.	1.50	mm				
	Lead Out		-	SIL					
Character Size	Character He	eight	C.H.	1.75	mm				
	Character W	idth	C.W.	1.14	mm				
Item	Symbol	Min.	Recommended	Max.	Unit				
Filament Voltage	Ef	1.89	2.1	2.31	Vac				
Grid Voltage	ec	-	27.0	32.0	Vp-p				
Anode Voltage	eb	-	27.0	32.0	Vp-p				
Cut-off Bias	Ek	-	3.5	-	Vdc				
Duty	Du	-	1/17.5	-	-				
Cycle									
Pulse Width	tp	-	80	-	uS				
Operating Temperature	Topr	-20	-	+ 70	С				
Storage Temperature	Tstg	-55	-	+ 80	С				
Color of Illumination		Green: X=0.250, Y=0.440							

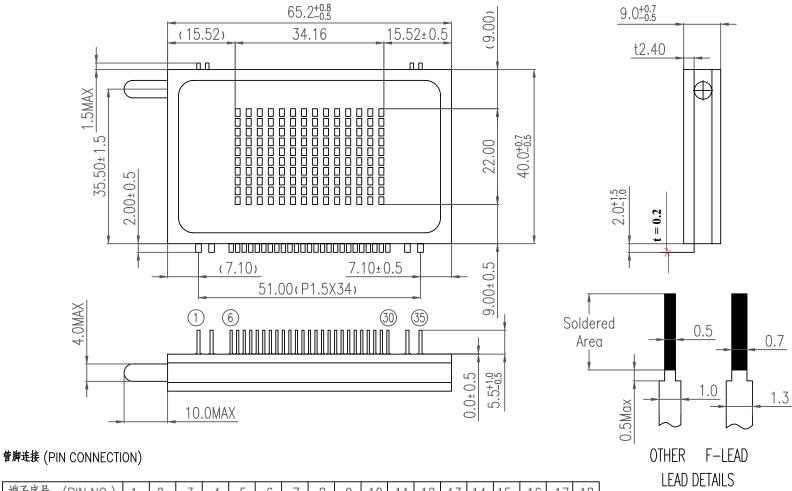
电气特性 Electrical Characteristics

项 目 Item	符号 Symbol	测试条件 Test Condition	最小值 Min	典型值 Typical	最大值 Max	単位 Unit
灯丝电流 Filament Current	If	Ef=2.1 Vac eb=ec=0	203.0	225.0	248.0	mAac
	ib/1G~14G	Ef=2.1 Vac		5.0	10.0	mAp-p
the let the Val	_	eb=27.0 Vp-p	_			mAp-p
阳极电流 Anode Current	_	ec=27.0 Vp-p				mAp-p
/ wiode our ent		Du=1/17.5		_		mAp-p
	_	tp=80µs tb=20µs				mAp-p
	ic/1G~14G	- - (笔段全亮)		4.5	9.0	mAp-p
lm 17 → >				_		mAp-p
栅极电流 Grid Current	_]				mAp-p
	_]				mAp-p
	_]		_		mAp-p
	L(G)		350 (102)	700 (204)		cd/m ² (fl)
亮度	_	tp				cd/m ² (fl)
Luminance	_	eb,c Filament Level	_	_		cd/m ² (fl)
	_	T Ek	_			cd/m ² (fl)
位间亮度比 Luminance Ratio	Lmin/Lmax		50			%
栅极截止电压 Grid Cut-off Voltage	Ecco	Ef=2.1 Vac Eb=27.0 Vdc	-3.5			Vdc
阳极截止电压 Anode Cut-off Voltage 注・驱动方式 动2	Ebco	Ef=2.1 Vac ec=27.0 Vp-p Du=1/17.5 tp=80 μs	-3.5	_	_	Vdc

注:驱动方式 动态 Drive mode:Dynamic state

control No.	QG/ZB0E 030.07.3-05
Spec. No.	SPC04.09.09-01
MODEL	C40-1405

附图1: 外形图 Outline Drawing (Unit:mm)

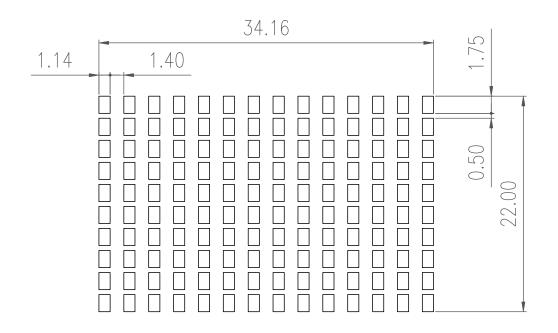


端子序号 (PIN NO.)	1	2	3	4	5	6	7	80	9	10	11	12	13	14	15	16	17	18
连接 (CONNECTION)	F1	NP	F1	NP	NP	P1	P2	Р3	P4	P5	P10	Р9	P8	P7	P6	NC	14G	13G
端子序号 (PIN NO.)	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
连接 (CONNFCTION)	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	ИР	F2	

注:F: 灯丝(Filament) P: 阳极(Anode) G: 栅极(Grid) NC: 无连接(No connection) NP: 无引出脚(No pin) NX: 无外引脚(No extended pin)

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附图2:显示内容 Display Pattern

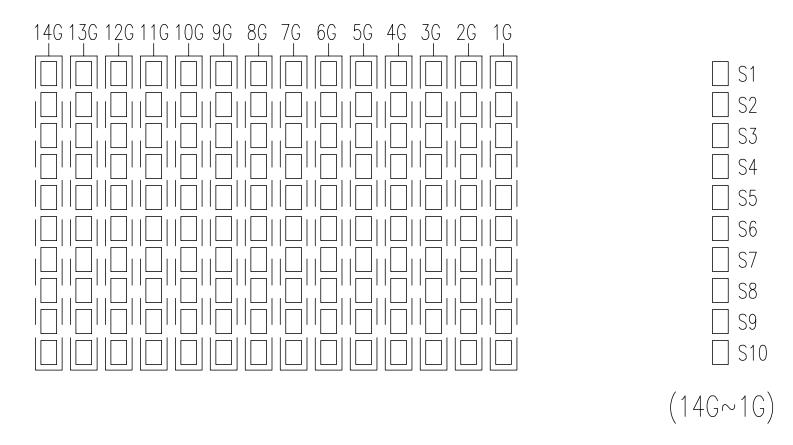


显示颜色(Color of illumination)

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



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附图4: 阳极连接 Anode Connection

	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1													
P2	S2													
P3	S3													
P4	S4													
P5	S5													
P6	S6													
P7	S7													
P8	S8													
P9	S9													
P10	S10													

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