

Model	HNV-12SS62	Rev. ① 19-Mar-2012
Application	DVD	
Color of Illumination #6)	GREEN (G. :x=0.250,y=0.439)	

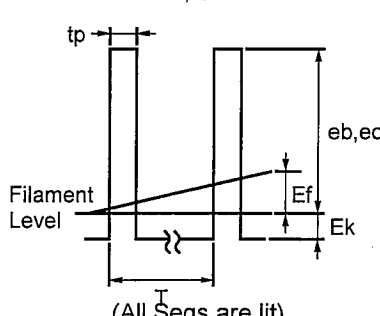
ABSOLUTE MAXIMUM RATINGS #4)

Item	Symbol	Min.	Max.	Unit	Condition
Filament Voltage #2)	Ef	2.64	3.96	Vdc	eb,ec = Typ.
Anode Voltage	eb	—	36.0	Vp-p	Ef=Typ.
Grid Voltage	ec	—	36.0	Vp-p	
Operating Temperature	Topr	-40	+85	°C	—

RECOMMENDED OPERATING CONDITION #5)

Item	Symbol	Min.	Typ.	Max.	Unit
Filament Voltage #2)	Ef	2.97	3.30	3.63	Vdc
Peak Anode Voltage	eb	27.0	30.0	33.0	Vp-p
Peak Grid Voltage	ec	27.0	30.0	33.0	Vp-p
Cut-Off Bias Voltage	Ek	2.0	—	—	Vdc
Duty Factor	Du	—	1/13	—	—
Pulse Width	tp	—	100	—	μs
Operating Temperature	Topr	-20	—	+70	°C
Storage Temperature	Tstg	-55	—	+85	°C

ELECTRICAL CHARACTERISTICS

Item	Test Condition	Symbol	Min.	Typ.	Max.	Unit	
Filament Current	Ef= 3.3 Vdc ,eb=ec=0	If	90	100	110	mAdc	
Anode Current #1)	Ef= 3.3 Vdc eb= 30.0 Vp-p ec= 30.0 Vp-p	ib	1G~12G	—	5.0	10.0	mAp-p
Grid Current #1)	Duty= 1/13 tp= 100 μs tb= 0 μs	ic	1G~12G	—	6.0	12.0	mAp-p
Brightness	 (All Segs are lit)	GREEN	102	204	—	ft-L	
Brightness Ratio Between Digits		L(Max.) / L(Min.)	—	—	2		
Grid Cut-Off Voltage #3)	Ef= 3.3 Vdc, Eb= 30.0 Vdc, Ec=Vary	Ecco	(-2.0)	—	—	Vdc	
Anode Cut-Off Voltage #3)	Ef= 3.3 Vdc, Du= 1/13 ec= 30.0 Vp-p, Eb= Vary	Ebco	(-2.0)	—	—	Vdc	

#1. Unless otherwise specified, the anode and the grid current should be measured for each grid when all anodes turn on.

#2. DC driving voltage.

#3. The cut-off voltage measurement should be grounded at negative(-) side of the filament terminal.

#4. Absolute Maximum Ratings : The value should not be exceeded in any conditions.

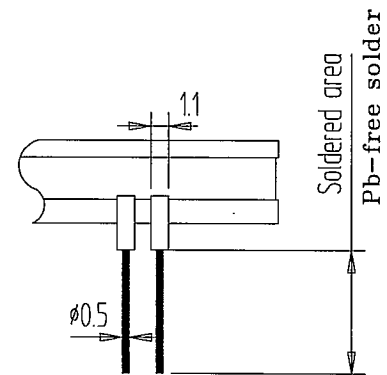
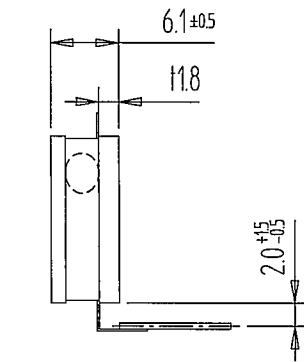
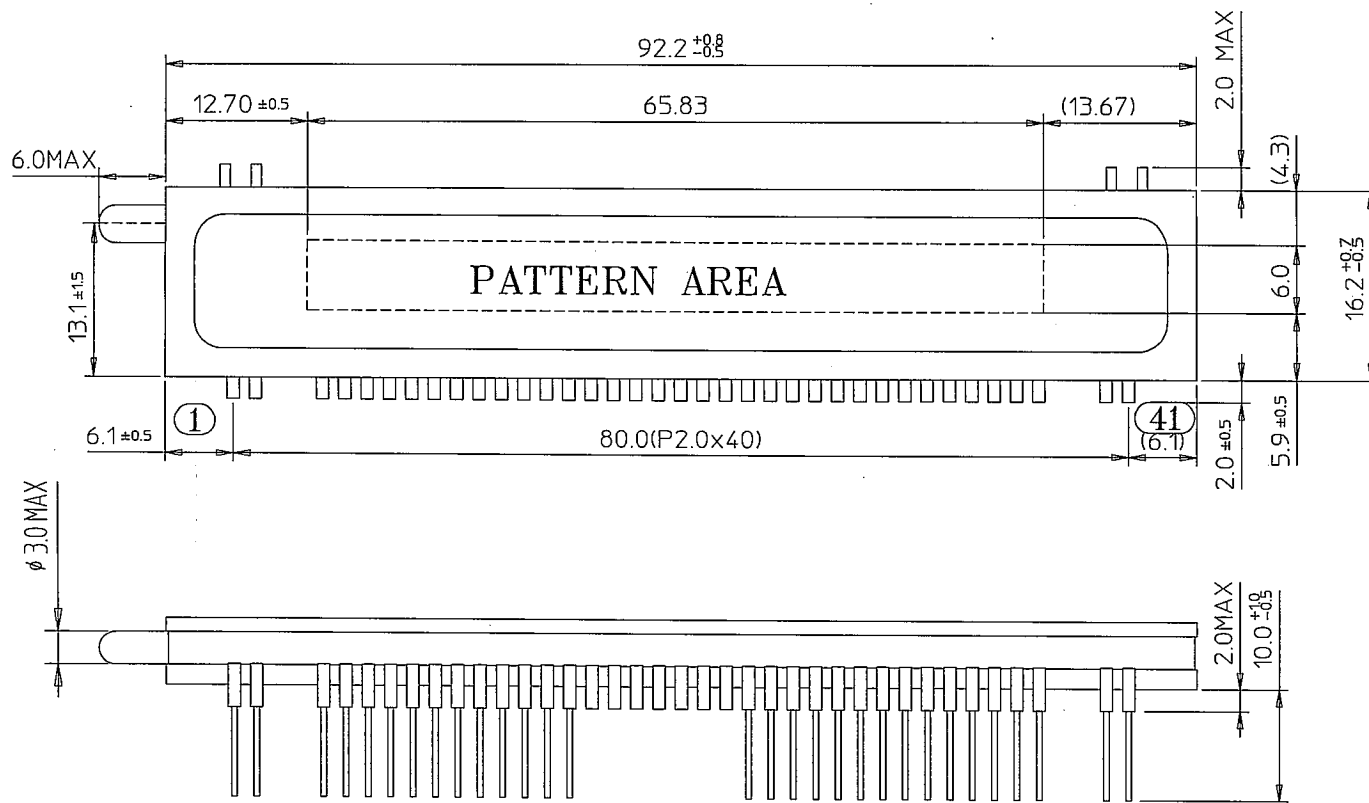
If a user don't keep this condition, then VFD may be permanently damaged.

#5. Recommended Operating Condition : Quality can be assured within this condition.

Typical rating is the most optimized value on the life time

#6. All phosphor is Cd-free phosphor.

OUTER DIMENSIONS



LEAD DETAILS

PIN CONNECTION

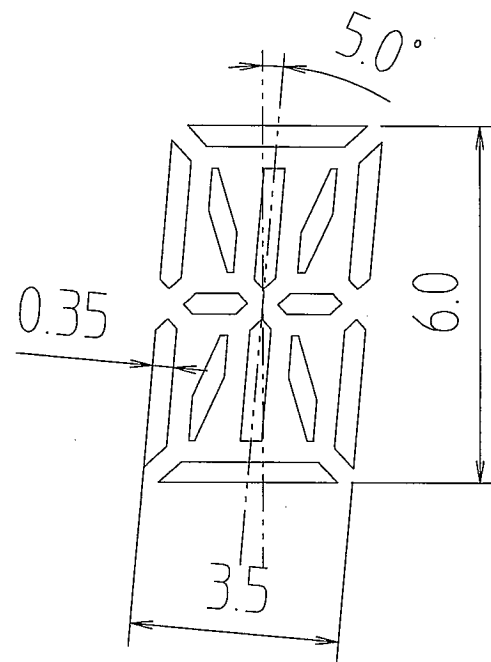
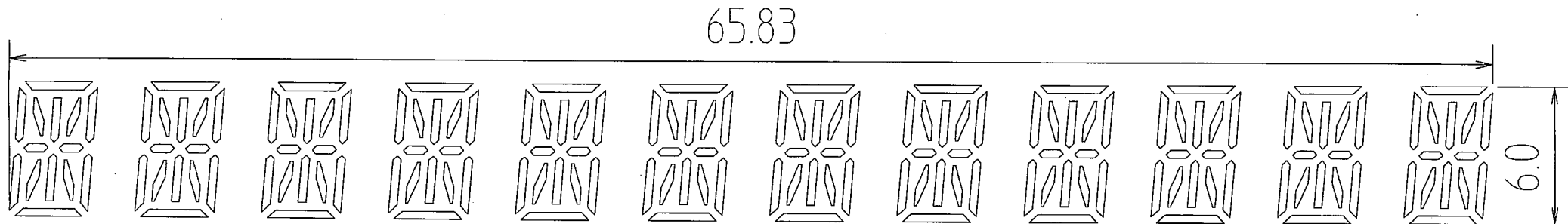
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 - 23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
CONNECTION	F-	F-	NP	NP	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NX	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F+	F+

◎ Notes ◎

- 1) F+, F- : Filament pin
- 2) nG : Grid pin
- 3) Pn : Anode pin
- 4) NP : No pin
- 5) NX : No extended pin

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 OUTER DIMENSIONS
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PATTERN DETAILS



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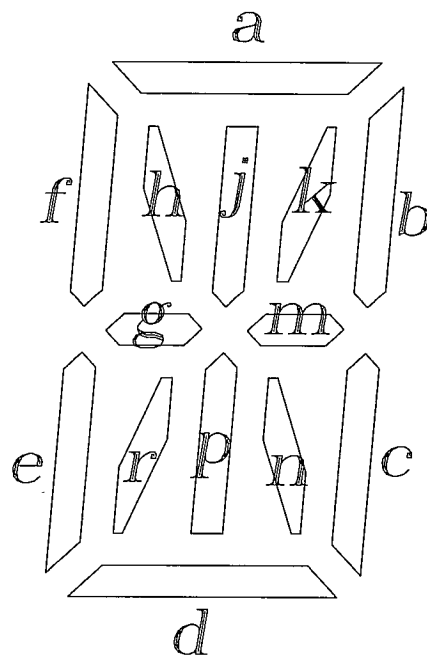
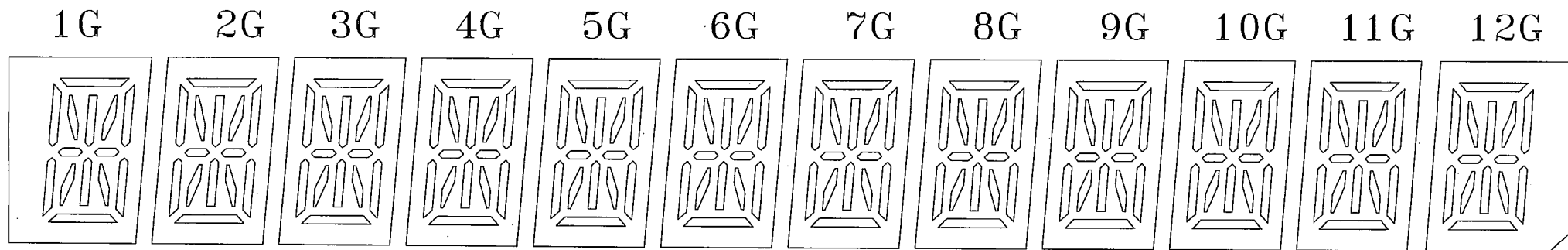
• Green (G. x=0.250,y=0.439) ---- All Patterns

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GRID ASSIGNMENT



(1G-12G)

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ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	a	a	a	a	a	a	a	a	a	a	a	a
P2	f	f	f	f	f	f	f	f	f	f	f	f
P3	h	h	h	h	h	h	h	h	h	h	h	h
P4	j	j	j	j	j	j	j	j	j	j	j	j
P5	k	k	k	k	k	k	k	k	k	k	k	k
P6	b	b	b	b	b	b	b	b	b	b	b	b
P7	g	g	g	g	g	g	g	g	g	g	g	g
P8	m	m	m	m	m	m	m	m	m	m	m	m
P9	e	e	e	e	e	e	e	e	e	e	e	e
P10	r	r	r	r	r	r	r	r	r	r	r	r
P11	p	p	p	p	p	p	p	p	p	p	p	p
P12	n	n	n	n	n	n	n	n	n	n	n	n
P13	c	c	c	c	c	c	c	c	c	c	c	c
P14	d	d	d	d	d	d	d	d	d	d	d	d

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