

Model	HNV-06SC44T	Rev. ② 12-Sep-2012
Application	DVD	
Color of Illumination #6)	Cd-free REDDISH ORANGE (Cd-free Rsh.O. :x=0.62,y=0.37) PURPLISH BLUE 2 (Psh.B.2 :x=0.194,y=0.219)	

### ABSOLUTE MAXIMUM RATINGS #4)

Item	Symbol	Min.	Max.	Unit	Condition
Filament Voltage #2)	Ef	—	3.12	Vac	eb,ec = Typ.
Anode Voltage	eb	—	25.0	Vp-p	Ef=Typ.
Grid Voltage	ec	—	25.0	Vp-p	
Operating Temperature	Topr	-40	+85	°C	—

### RECOMMENDED OPERATING CONDITION #5)

Item	Symbol	Min.	Typ.	Max.	Unit
Filament Voltage #2)	Ef	2.34	2.60	2.86	Vac
Peak Anode Voltage	eb	19.0	21.0	23.0	Vp-p
Peak Grid Voltage	ec	19.0	21.0	23.0	Vp-p
Cut-Off Bias Voltage	Ek	3.5	—	5.3	Vdc
Duty Factor	Du	—	1/7	—	—
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= 2.6 Vac ,eb=ec=0	If	90	100	110	mAac	
Anode Current #1)	Ef= 2.6 Vac eb= 21.0 Vp-p ec= 21.0 Vp-p	ib	1G~6G	—	5.0	10.0	mAp-p
Grid Current #1)	Duty= 1/7 tp= 100 μs tb= 0 μs	ic	1G~6G	—	5.0	10.0	mAp-p
Brightness	<p>Filament Level</p> <p>T</p> <p>eb,ec</p> <p>Ek</p>	Cd-free REDDISH ORANGE	35	70	—	cd/m²	
		PURPLISH BLUE 2	40	80	—	cd/m²	
		L(Max.) / L(Min.)	—	—	2		
Grid Cut-Off Voltage #3)	Ef= 2.6 Vac, Eb= 21.0 Vdc, Ec=Vary	Ecco	(-3.5)	—	—	Vdc	
Anode Cut-Off Voltage #3)	Ef= 2.6 Vac, Du= 1/7 ec= 21.0 Vp-p, Eb= Vary	Ebco	(-3.5)	—	—	Vdc	

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

#2. Based on common application of AC power source, switched frequency placed on 50Hz-60Hz would be acceptable.

However, considering nature characteristic of filament, 10KHz or above would be strongly recommended.

#3. The cut-off voltage should be measured under the condition of the center-tab ground.

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

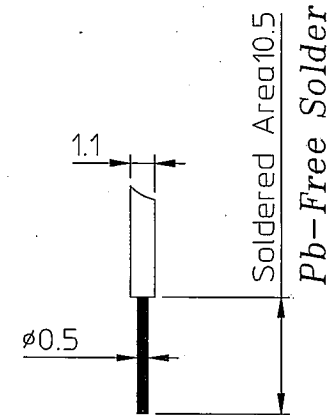
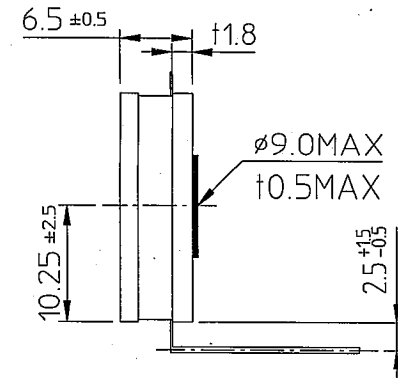
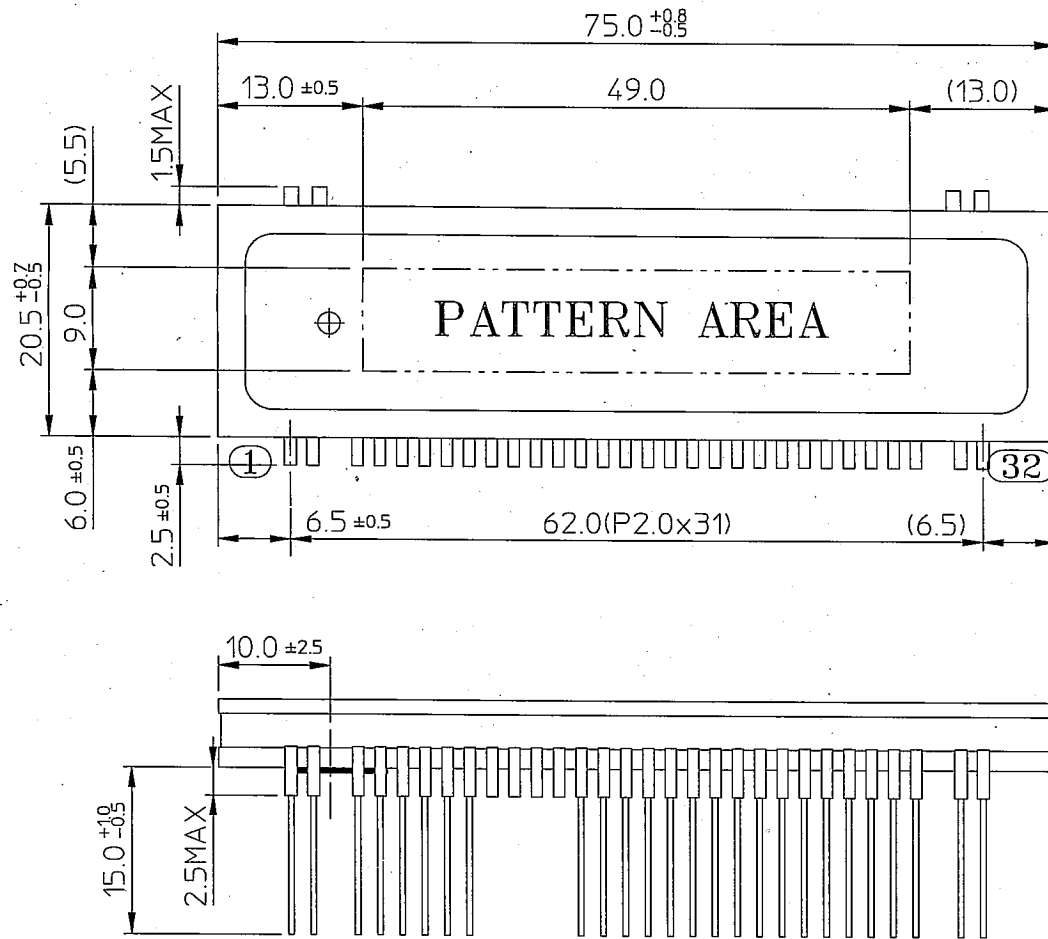
The value is not allowed to be longtime used, or else the VFD may be permanently damaged.

#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	10-13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CONNECTION	F1	F1	NP	1G	2G	3G	4G	5G	6G	NX	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NP	F2	F2

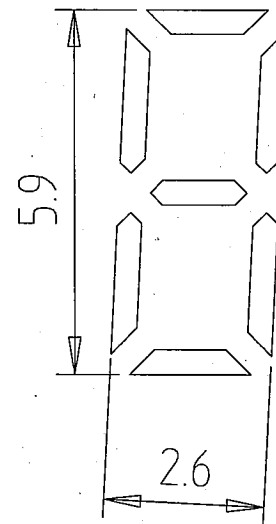
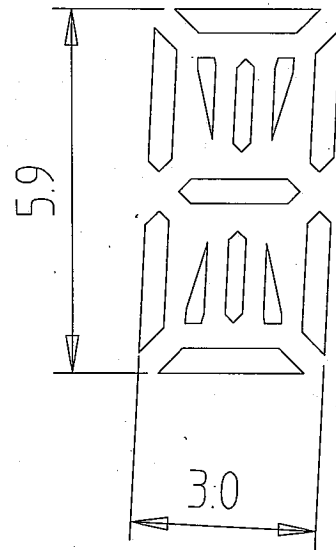
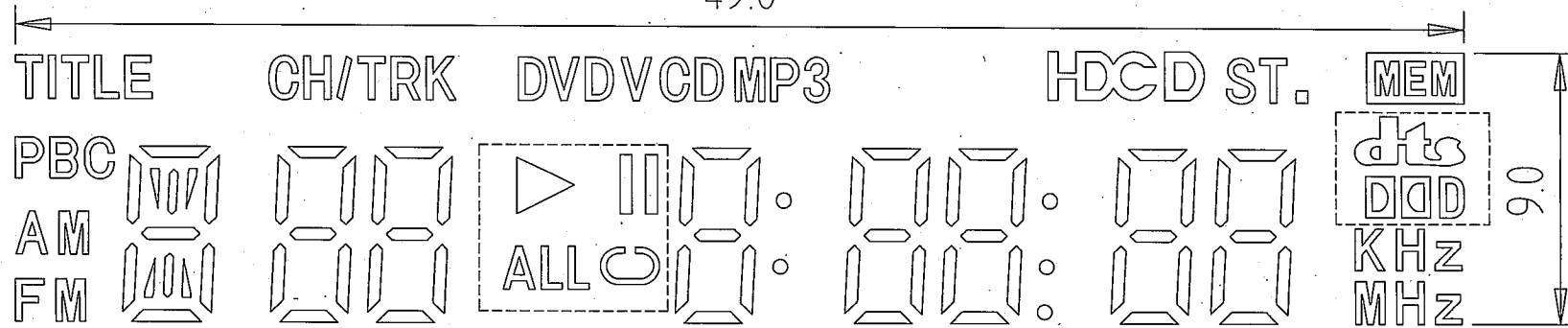
● Notes ●

- 1) Fn : Filament pin
- 2) nG : Grid pin
- 3) Pn : Anode pin
- 4) NP : No pin
- 5) NX : No Extended Pin

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# PATTERN DETAILS

49.0



© Color of Illumination ©

· Cd free Reddish Orange (0. x=0.62,y=0.37) -----Patterns within the dotted line.

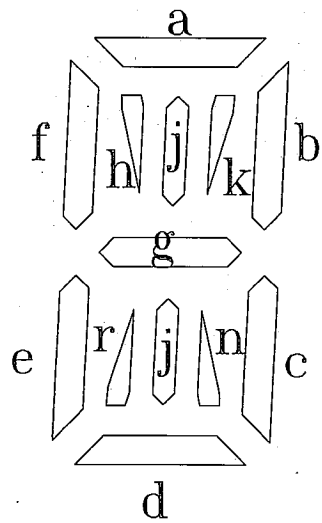
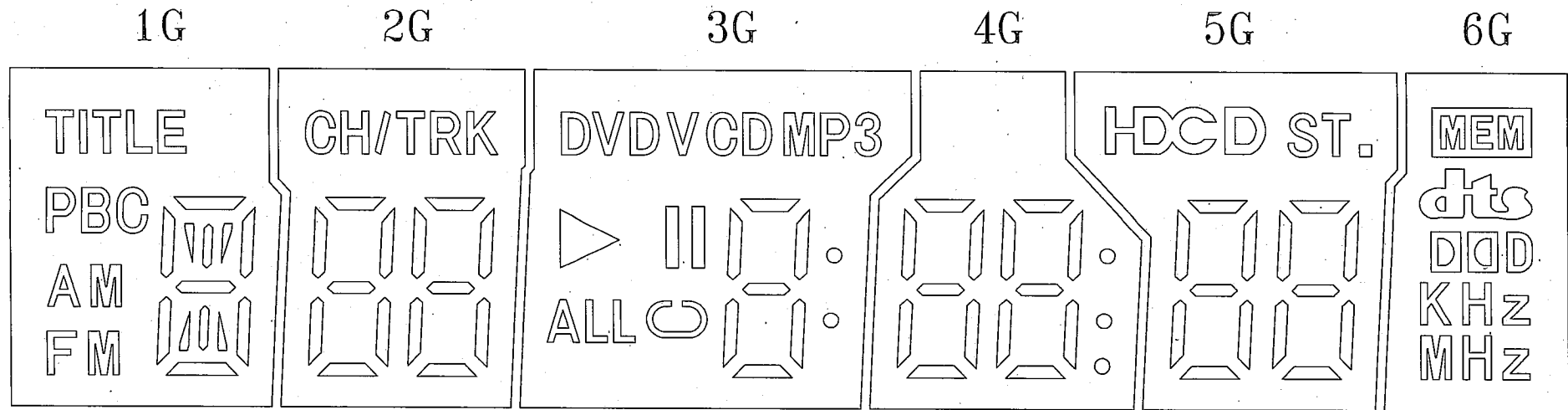
· Purplish Blue 2 (Psh.B.2 :x=0.194,y=0.219) ----- Others.

© Negative patterns ©

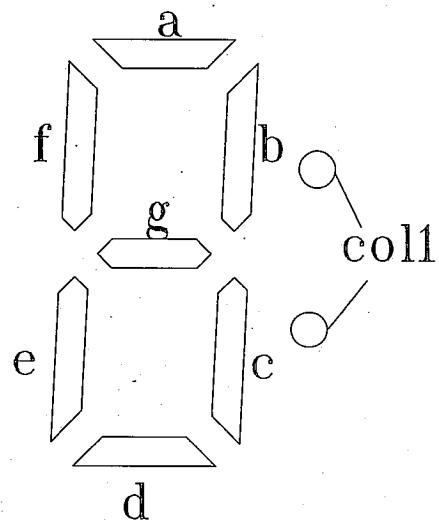
**MEM**

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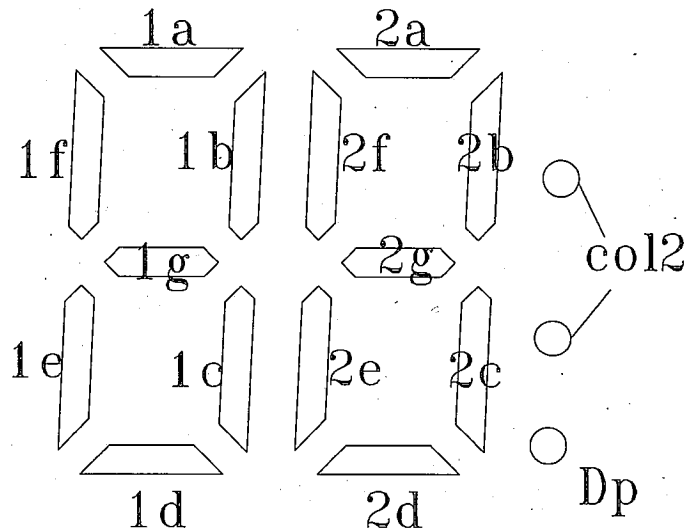
# GRID ASSIGNMENT



1G



3G



2G, 4G, 5G

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# ANODE CONNECTION

	1G	2G	3G	4G	5G	6G
P1	TITLE	CH/TRK	MP3	Dp	HDCD	
P2	PBC		CD	col2	ST.	
P3	j	2a	V	2a	2a	
P4	h	2b	DVD	2b	2b	
P5	k	2f	II	2f	2f	
P6	n	2g	▶	2g	2g	
P7	r	2c	coll	2c	2c	
P8	AM	2e	↻	2e	2e	
P9	FM	2d	ALL	2d	2d	
P10	d	1d	d	1d	1d	
P11	e	1e	e	1e	1e	MHz
P12	c	1c	c	1c	1c	KHz
P13	g	1g	g	1g	1g	DDD
P14	f	1f	f	1f	1f	dts
P15	b	1b	b	1b	1b	MEM
P16	a	1a	a	1a	1a	

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