

# Mullard

## ACORN PENTODE

# 4672

Heater Vf = 6.3 V  
If = 0.15 A

Capacities Cg1 < 0.007 uuF  
Cg1 = 3.0 uuF  
Ca = 3.4 uuF  
Cglf = 0.18 uuF

**Operating Conditions (k connected to g3)**

Va	90	250	V
Vg2	90	100	V
Ia	1.2	2	mA
Vg1	-3	-3	V
Ig2 (Ia = 1.2 mA)	0.5	-	mA
Ig2 (Ia = 2 mA)	-	0.7	mA
S (Ia = 1.2 mA)	1.1	-	mA/V
S (Ia = 2 mA)	-	1.4	mA/V
g	1,100	2,100	
R1 (Ia = 1.2 mA)	1	-	megohm
R1 (Ia = 2 mA)	-	1.5	megohm
g (g1g2)	25	28	

**Limiting Values**

Va max	250	V
Wa max	0.8	W
Ik max	5	mA
Vg1 max (Igl=+0.3 uA)	-1.3	V
Vg2 max	100	V
Wg2 max	0.15	W
Rg1 max	3	megohms
Vfk max	50	V
Rfk max	20,000	ohms

→ Damping λ Zi Za  
(m) (ohms) (ohms)

5	45,000	< 200,000
7	100,000	300,000

→ Operating Conditions as L.F. Amplifier  
 (Using resistance coupling and k connected to g3)

Ra Megohms	Va V	Rg2 Megohms	Rk Ohms	Ia mA	Ig2 mA	Vo Vi	Vo Veff	D %
0.3	250	0.8	4000	0.5	0.20	165	14	1.5
0.2	250	0.5	2500	0.7	0.32	150	14	1.0
0.1	250	0.32	1250	1.3	0.51	100	14	1.3

→ Operating Conditions as Grid Detector  
(Using resistance coupling with k connected to g3)

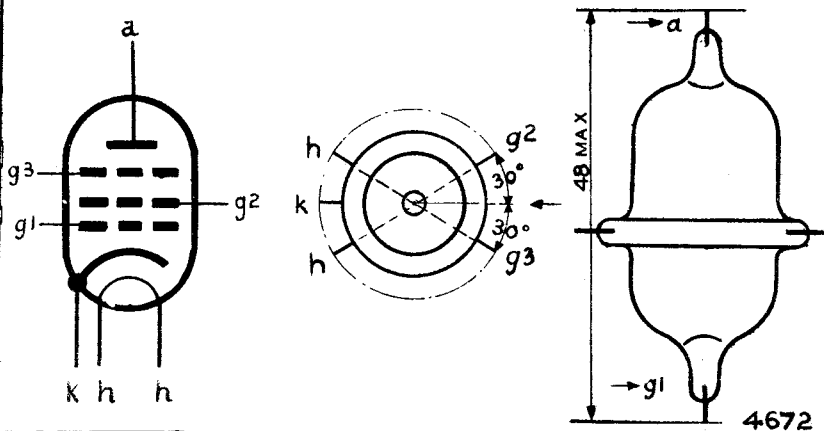
Ra Megohms	Va V	Rg2 Megohms	Ia mA	Ig2 mA	Vo VI
0.3	250	0.8	0.6	0.25	20
0.2	250	0.5	0.9	0.4	20
0.1	250	0.1	2.7	1.5	16.5

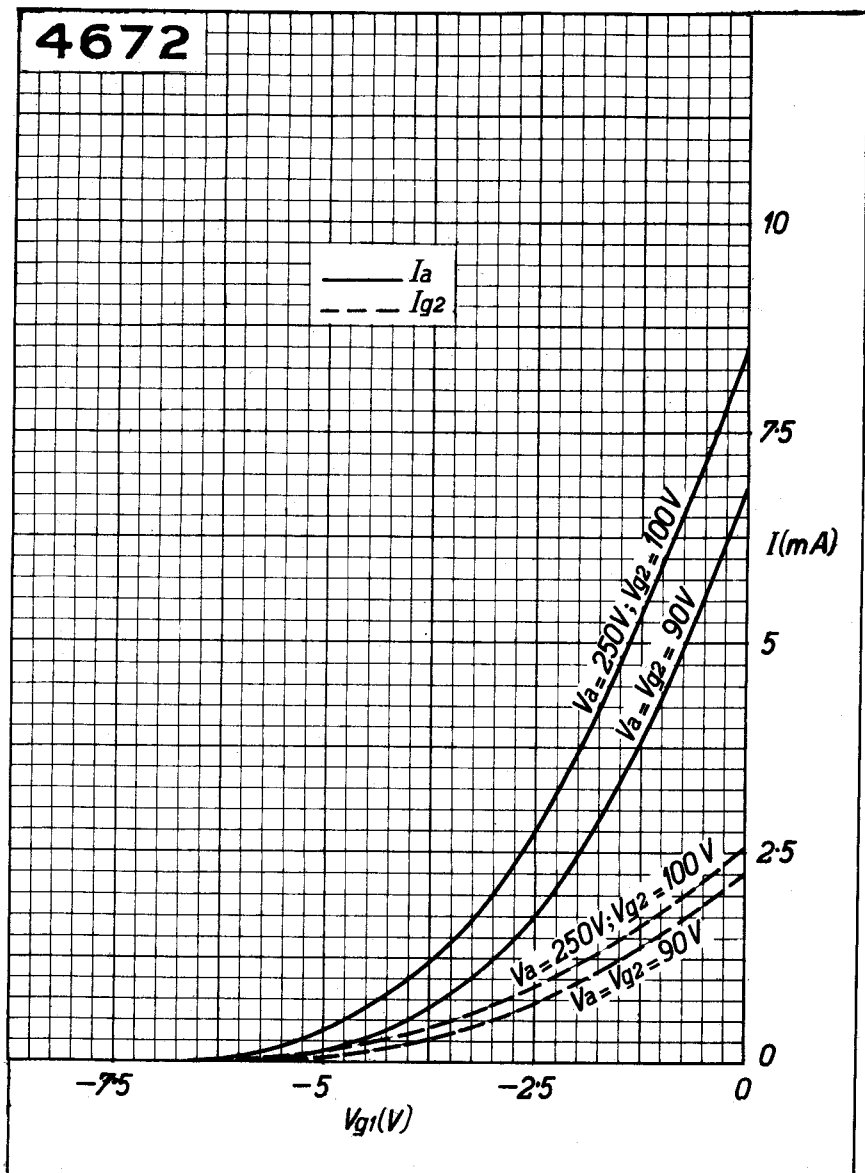
These values of Ia and Ig2 were measured with no signal.

→ Operating Conditions as Anode Bend Detector  
(With k connected to g3)

Va	.....	250	V
Ia	.....	0.2	mA
Vg2	.....	60	V
Ig2	.....	0.06	mA
Ra	.....	0.3	megohm
Rk	.....	5000	ohms
Amplification $\frac{Vo}{VI}$ (Vo = 2 V, m = 30%)	.....	9	

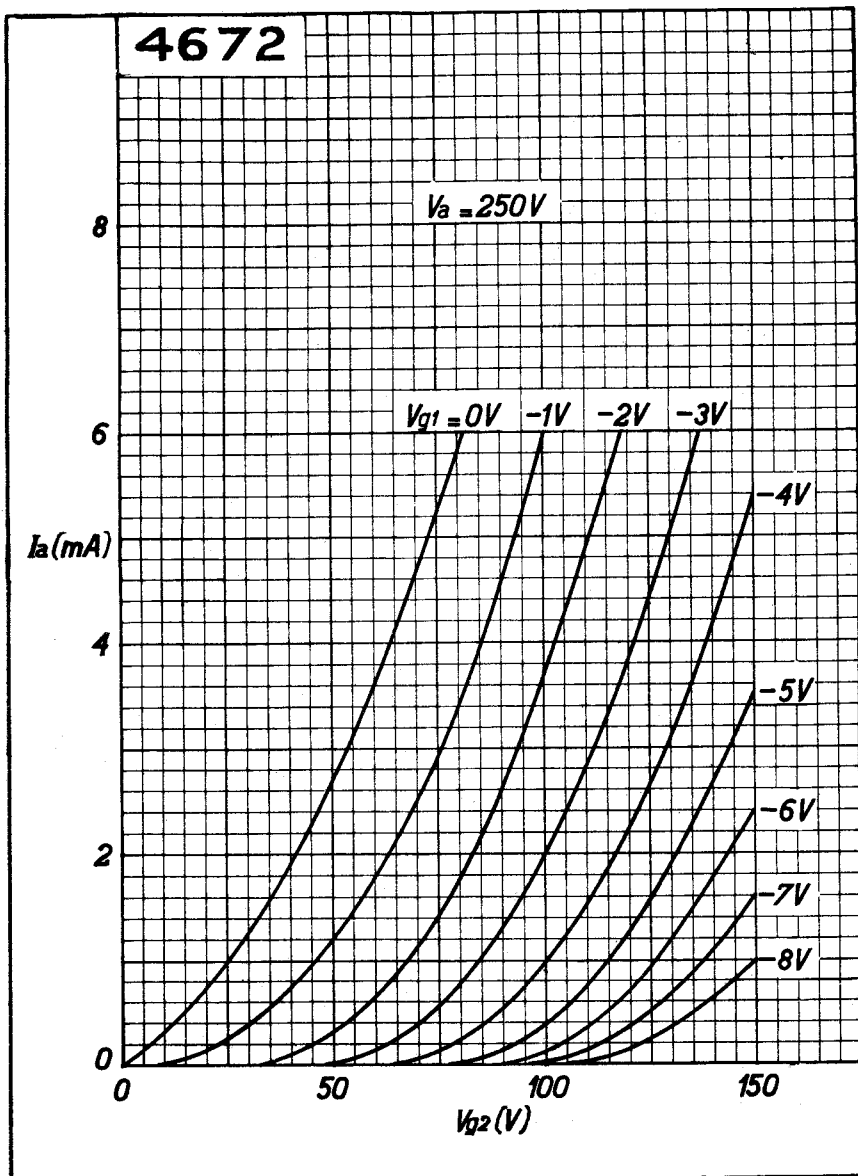
Arrangement of electrodes and base connections.





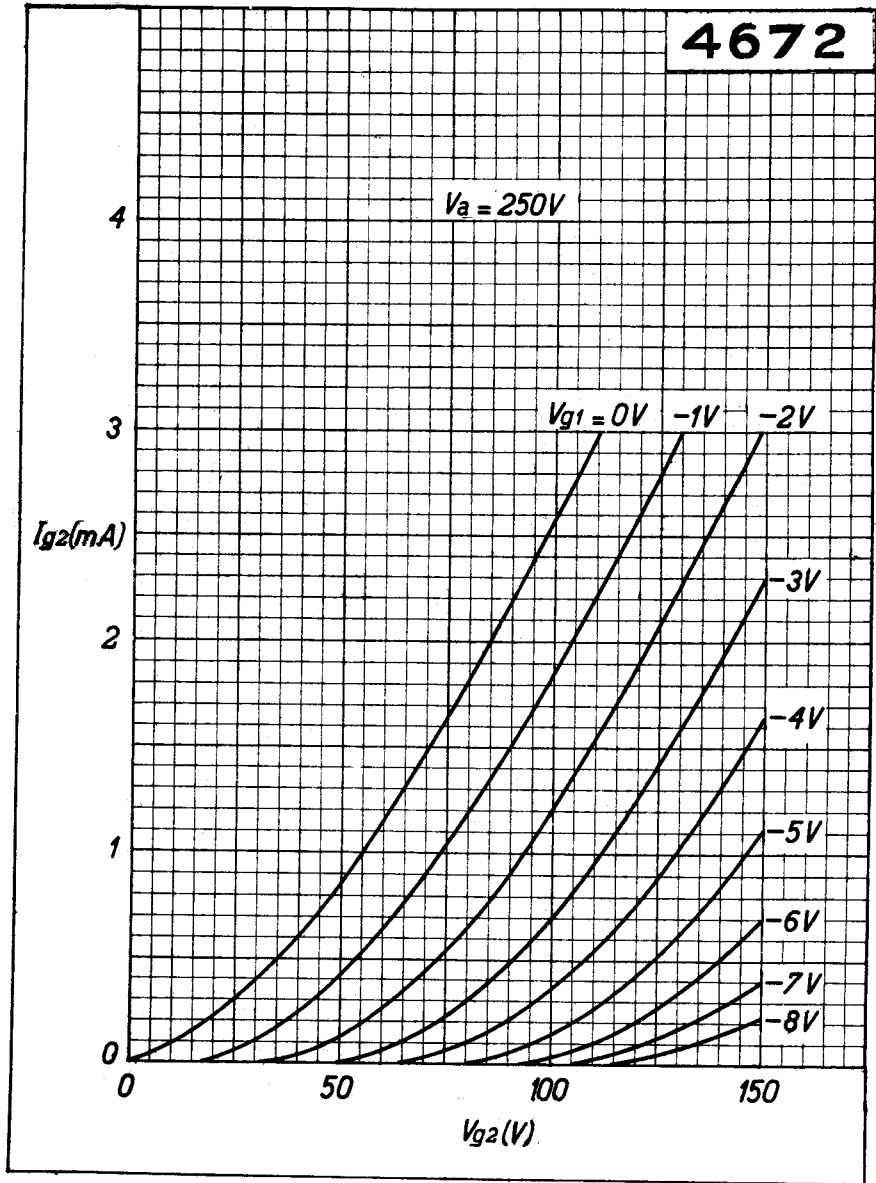
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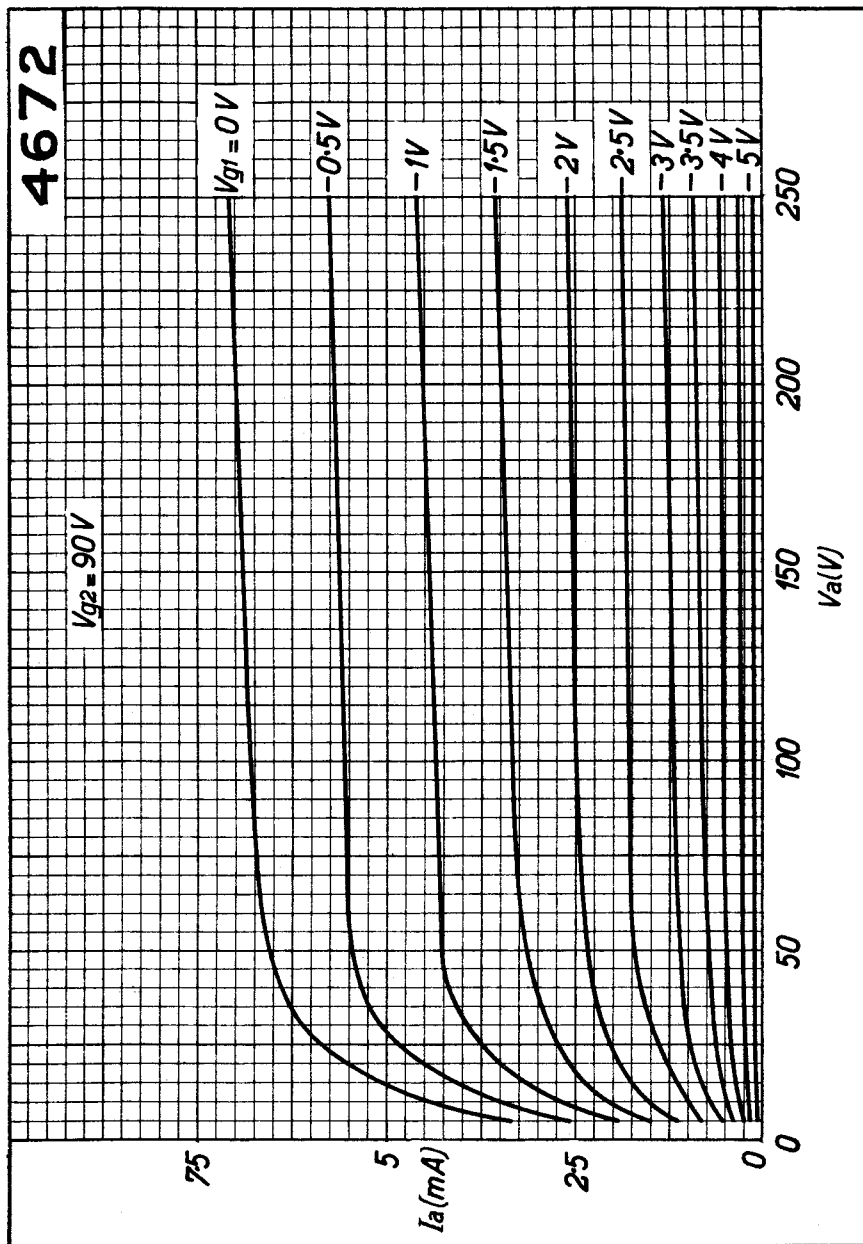
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