

Mullard

ACORN PENTODE

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Heater Vf = 6.3 V
If = 0.15 A

Capacities C_{g1} < 0.007 uuF
C_{g1} = 3.0 uuF
C_a = 3.4 uuF
C_{glf} = 0.18 uuF

Operating Conditions (k connected to g₃)

V _a	90	250	V
V _{g2}	90	100	V
I _a	1.2	2	mA
V _{g1}	-3	-3	V
I _{g2} (I _a = 1.2 mA)	0.5	-	mA
I _{g2} (I _a = 2 mA)	-	0.7	mA
S (I _a = 1.2 mA)	1.1	-	mA/V
S (I _a = 2 mA)	-	1.4	mA/V
g	1,100	2,100	
R ₁ (I _a = 1.2 mA)	1	-	megohm
R ₁ (I _a = 2 mA)	-	1.5	megohm
g (g _{1g2})	25	28	

Limiting Values

V _a max	.....	250	V
W _a max	.....	0.8	W
I _k max	.....	5	mA
V _{g1} max (I _{g1} = +0.3 μ A)	.....	-1.3	V
V _{g2} max	.....	100	V
W _{g2} max	.....	0.15	W
R _{g1} max	.....	3	megohms
V _{fk} max	.....	50	V
R _{fk} max	.....	20,000	ohms

→ Damping λ Z_i Z_a
(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)

R _a Megohms	V _a V	R _{g2} Megohms	R _k Ohms	I _a mA	I _{g2} mA	V _o V _i	V _o V _{eff}	D %
0.3	250	0.8	4000	0.5	0.20	165	14	1.5
0.2	250	0.5	2500	0.79	0.32	150	14	1.0
0.1	250	0.32	1250	1.3	0.51	100	14	1.3

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

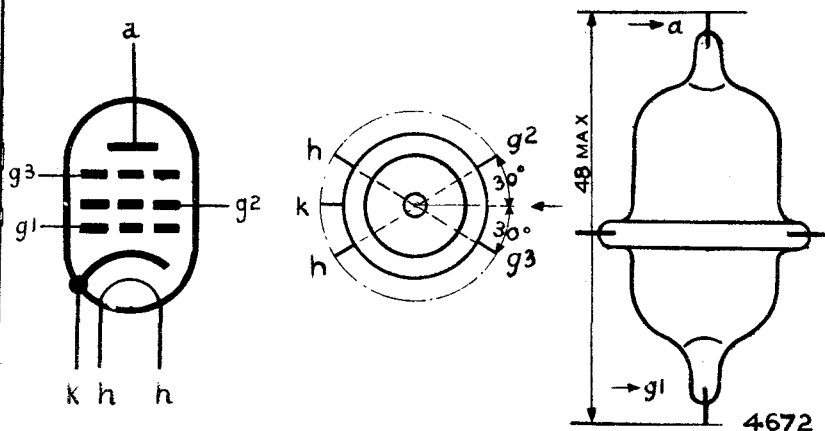
Ra Megohms	Va V	Rg2 Megohms	Ia mA	Ig2 mA	Vo VI
0.3	250	0.8	0.6	0.25	20
0.2	250	0.5	0.9	0.4	20
0.1	250	0.1	2.7	1.5	16.5

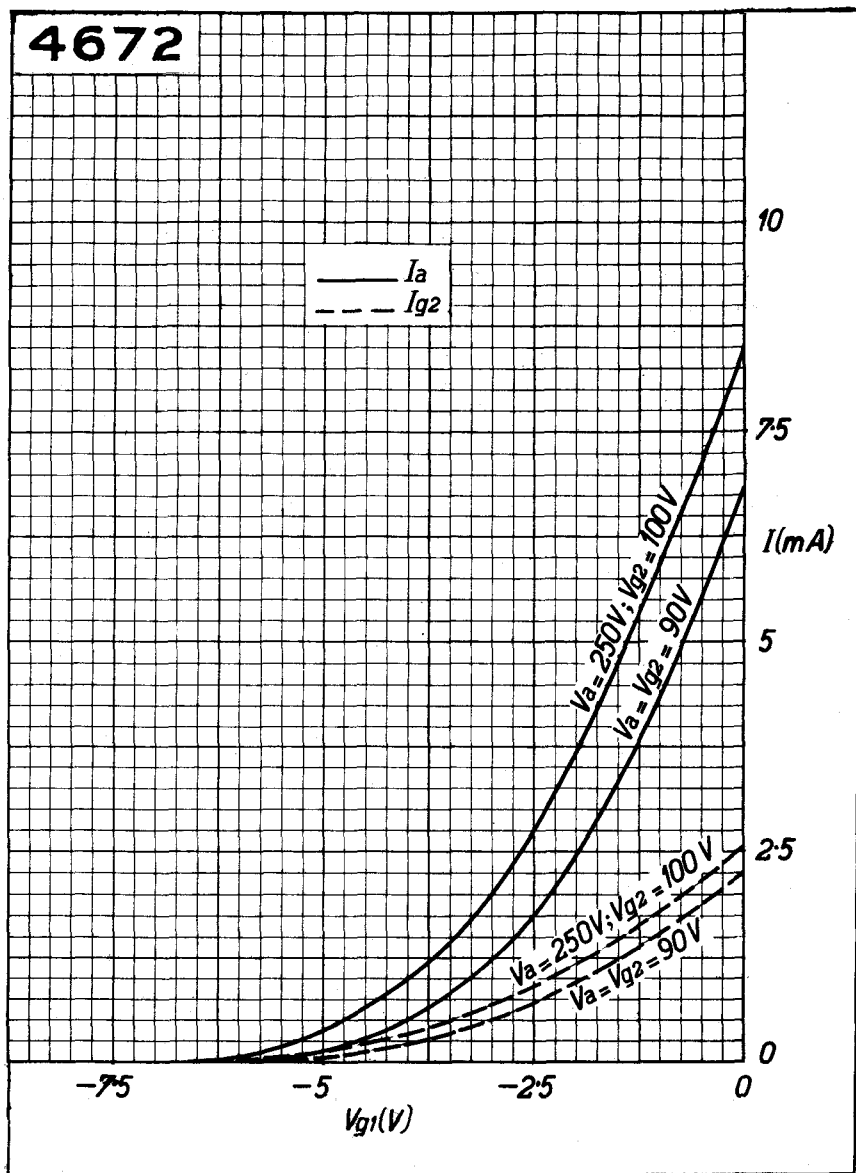
These values of Ia and Ig2 were measured with no signal.

→ 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.

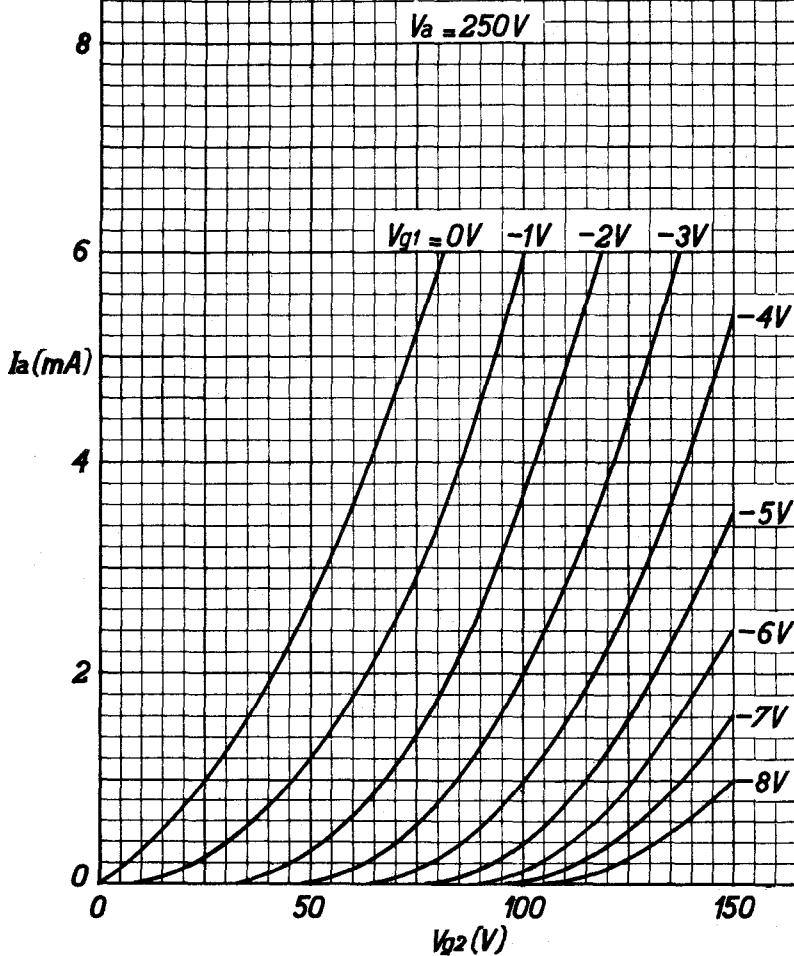




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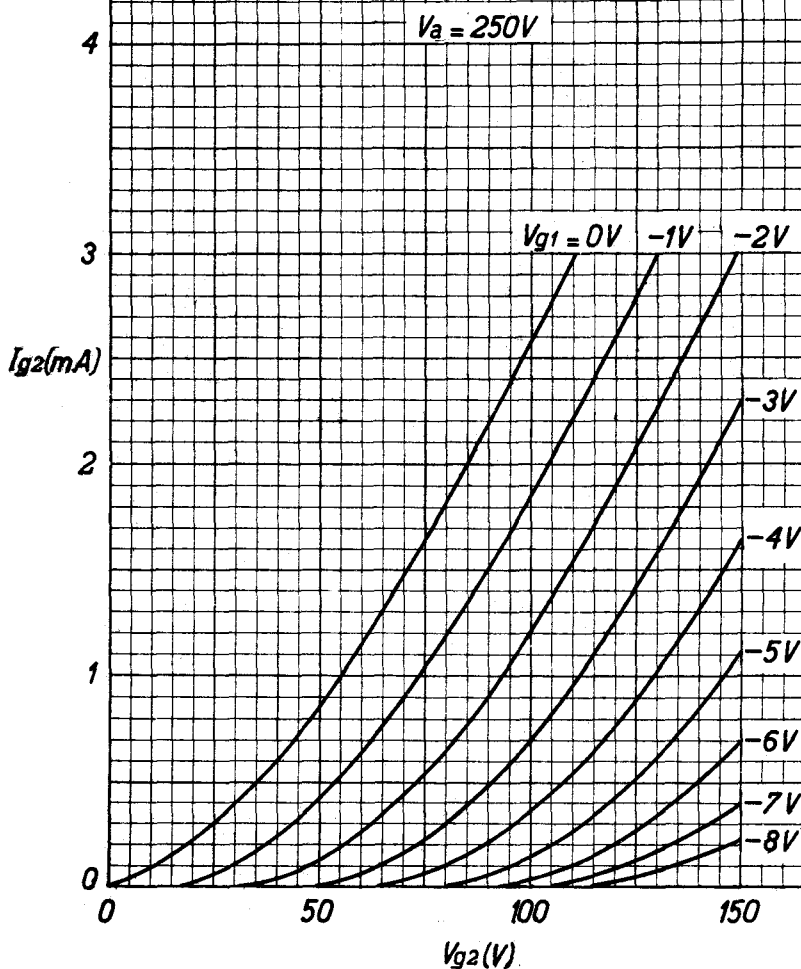
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