

# Mullard

## OUTPUT PENTODE

# CL6

Heater (This valve is suitable  
for DC/AC operation.)

Vf = 35 V

If = 0.2 A

Capacity

Cagl < 0.5  $\mu$ F

### Operating Conditions

Va	100	200	V
Vg2	100	100	V
Ia	50	45	mA
-Vg1	8.3	9.5	V
Ig2	9	5.5	mA
S	8.5	8	mA/V
Ri	12,000	19,000	ohms
g (g2g1)	7	6.5	
Wo	2.1	4	W
Ra	2,000	4,500	ohms
Vg1 eff	5.6	5.6	V
Vg1 eff (Wo = 50 mW)	0.62	0.47	V
dtot	10	10	%
Rk	140	190	ohms

### Operating Conditions for 2 valves in push-pull

Va	100	250	V
Vg2	100	125	V
Iao	2 x 42	2 x 36	mA
Ia max	2 x 42	2 x 42.5	mA
Ig2o	2 x 7.5	2 x 4.1	mA
Ig2 max	2 x 12.5	2 x 12.5	mA
Rk	2 x 190	2 x 365	ohms
Ra	3,000	7,000	ohms
Wo	4	13.5	W
dtot (Wo max)	5.6	6.3	%
Vg1 eff (Wo max)	6.7	13.7	V

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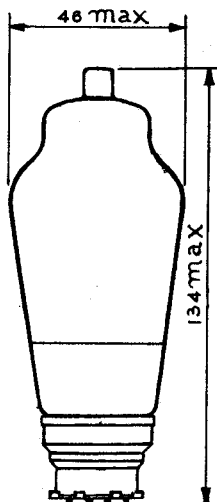
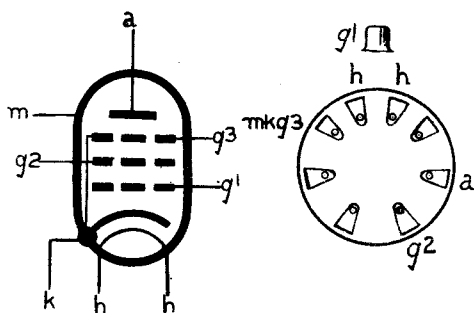
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### Limiting Values.

V <sub>ao</sub> max	.....	550	V
V <sub>a</sub> max	.....	250	V
I <sub>a</sub> max	.....	9	W
V <sub>g2o</sub> max	.....	550	V
V <sub>g2</sub> max	.....	125	V
W <sub>g2</sub> max (V <sub>g1</sub> eff = 0)	.....	1	W
W <sub>g2</sub> max (W <sub>o</sub> max)	.....	1.5	W
I <sub>g2</sub> max (I <sub>a</sub> = 50 mA, V <sub>g2</sub> = 100 V)	.....	11.5	mA
I <sub>g2</sub> min (I <sub>a</sub> = 50 mA, V <sub>g2</sub> = 100 V)	.....	7.5	mA
I <sub>g2</sub> max (I <sub>a</sub> = 45 mA, V <sub>g2</sub> = 100 V)	.....	7.0	mA
I <sub>g2</sub> min (I <sub>a</sub> = 45 mA, V <sub>g2</sub> = 100 V)	.....	4.0	mA
I <sub>k</sub> max	.....	70	mA
V <sub>g1</sub> max (I <sub>g1</sub> = +0.3 uA)	.....	-1.3	V
R <sub>g1a</sub> max	.....	1	Megohm
V <sub>fk</sub> max	.....	175	V
R <sub>fk</sub> max	.....	5,000	ohms

### Arrangement of electrodes and base connections

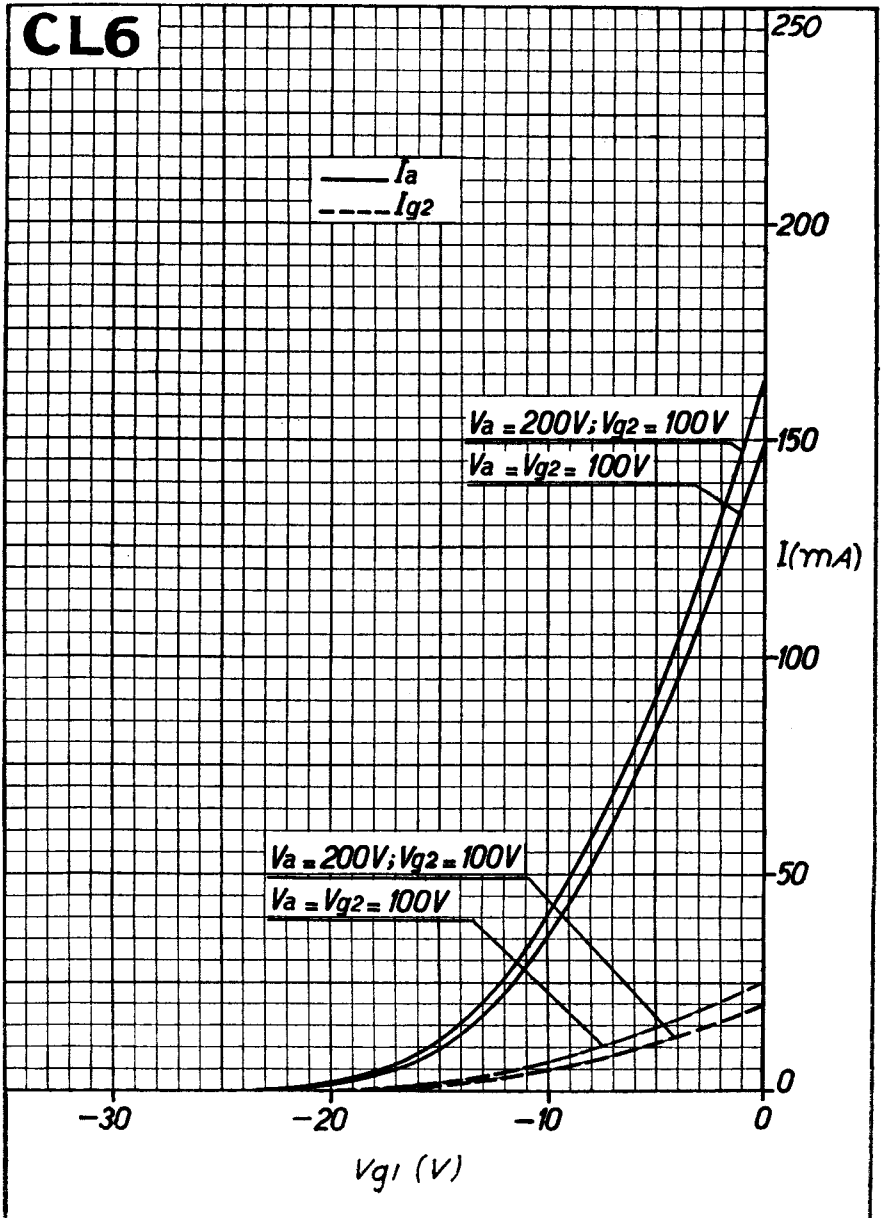


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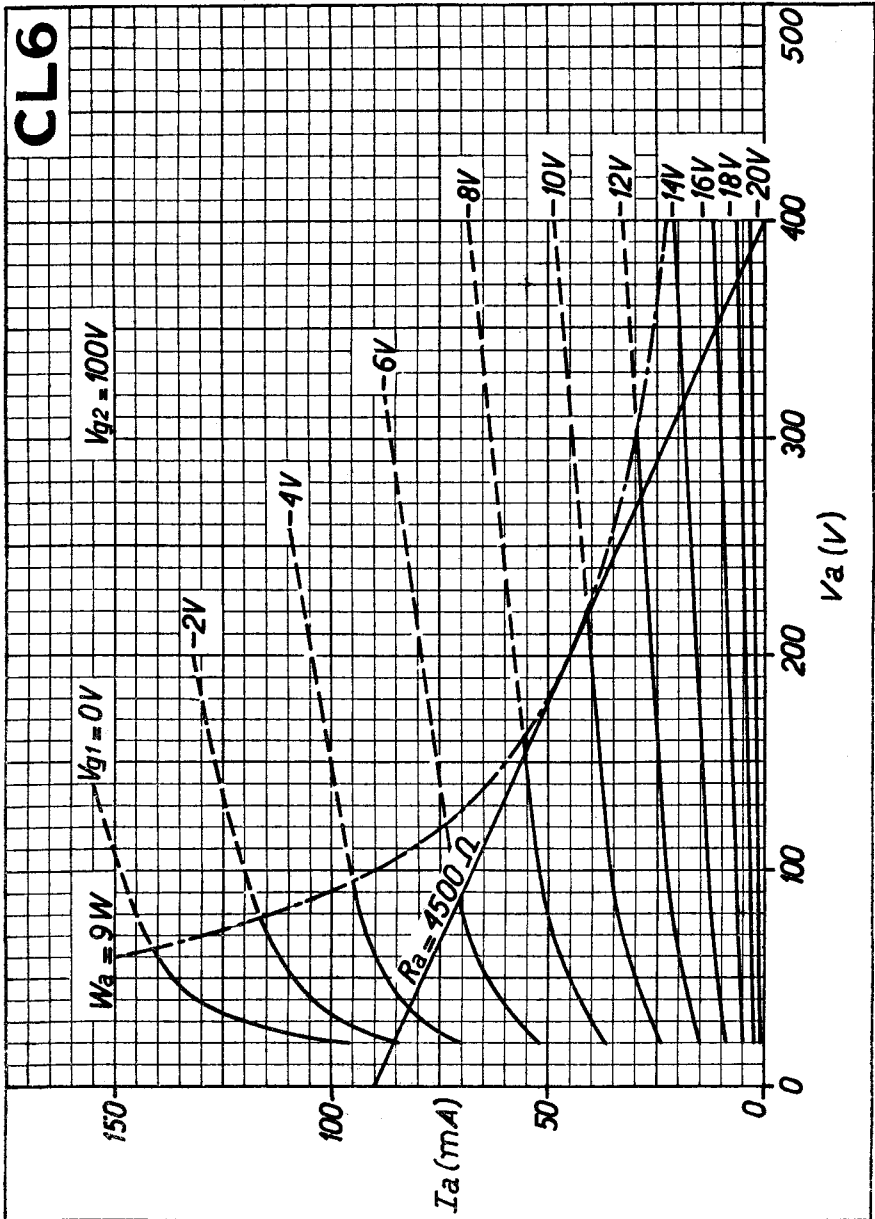
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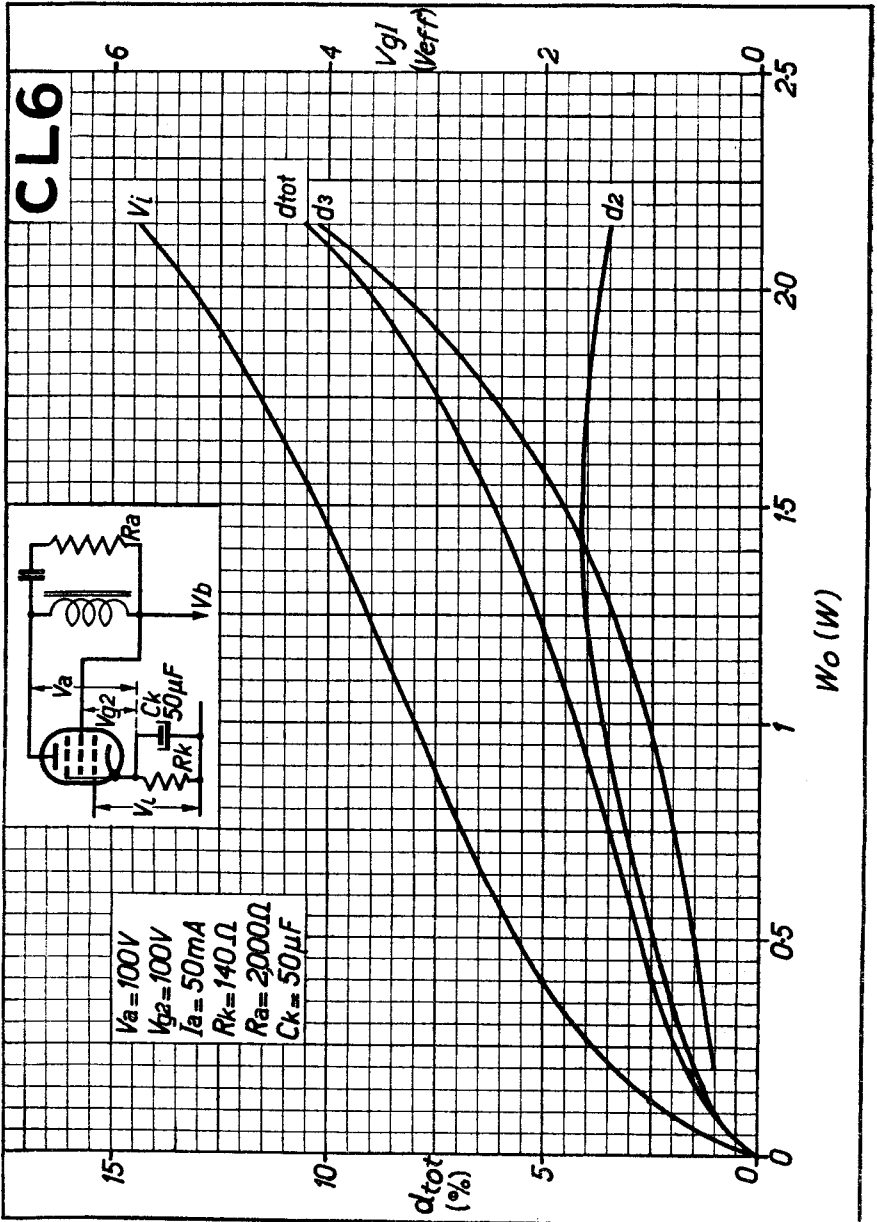
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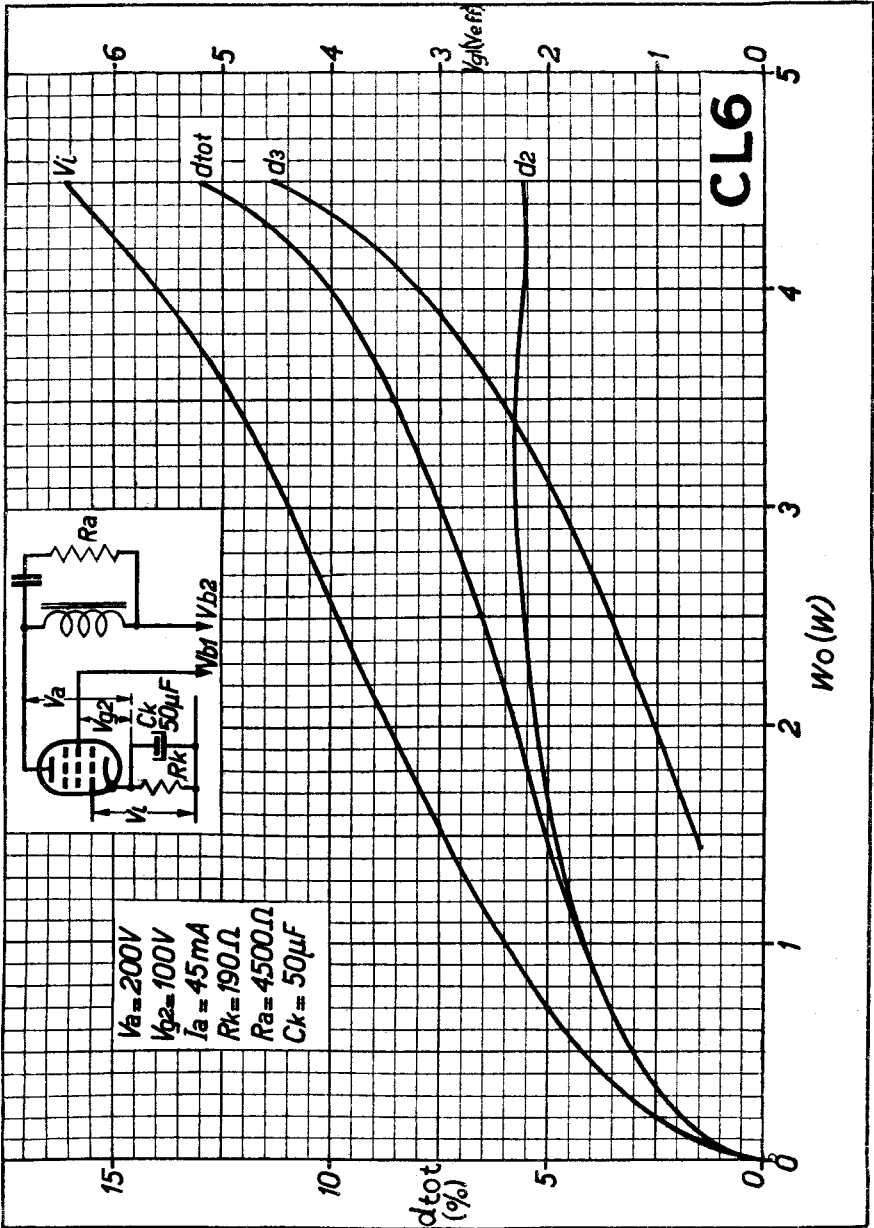
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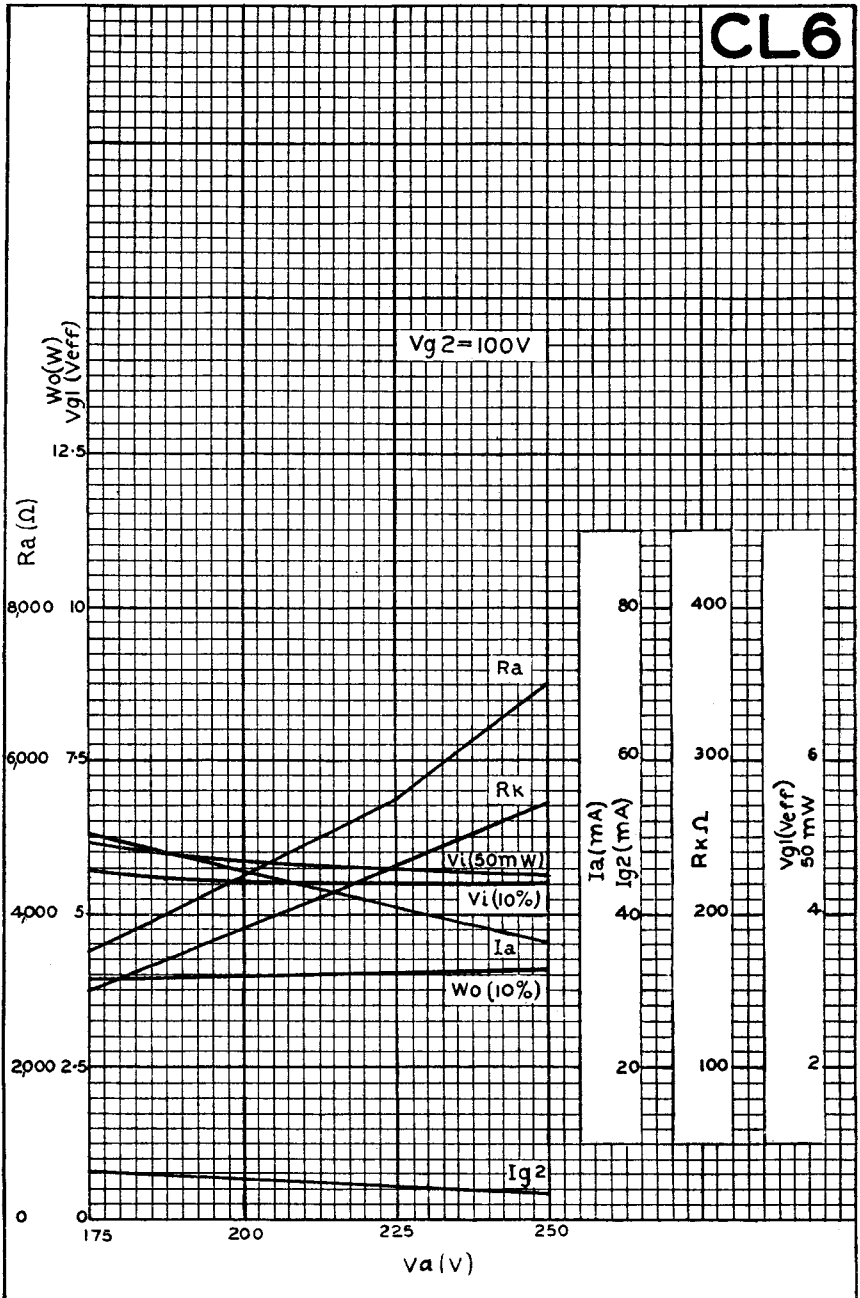


$V_a = 200V$   
 $V_{g2} = 100V$   
 $I_a = 45mA$   
 $R_k = 190\Omega$   
 $R_a = 4500\Omega$   
 $C_k = 50\mu F$

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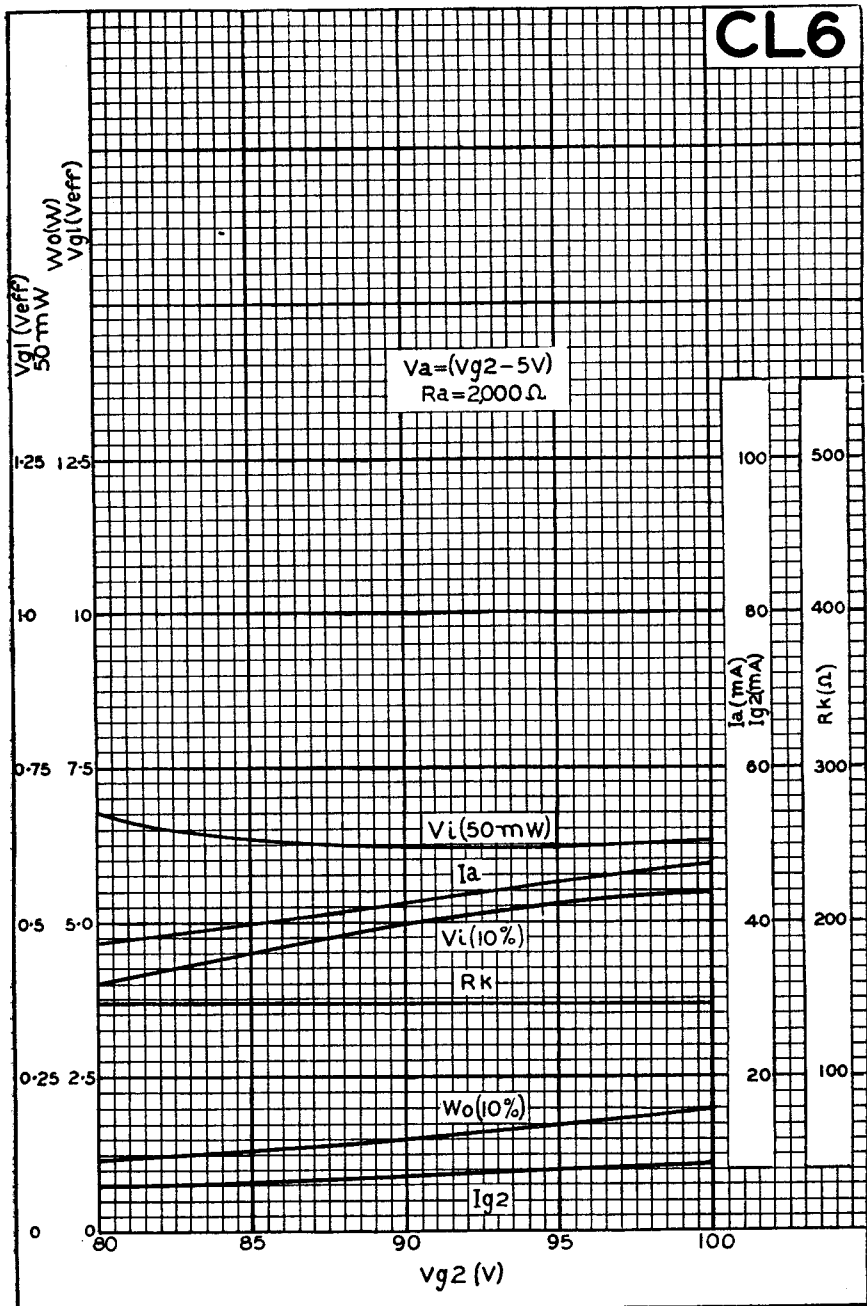
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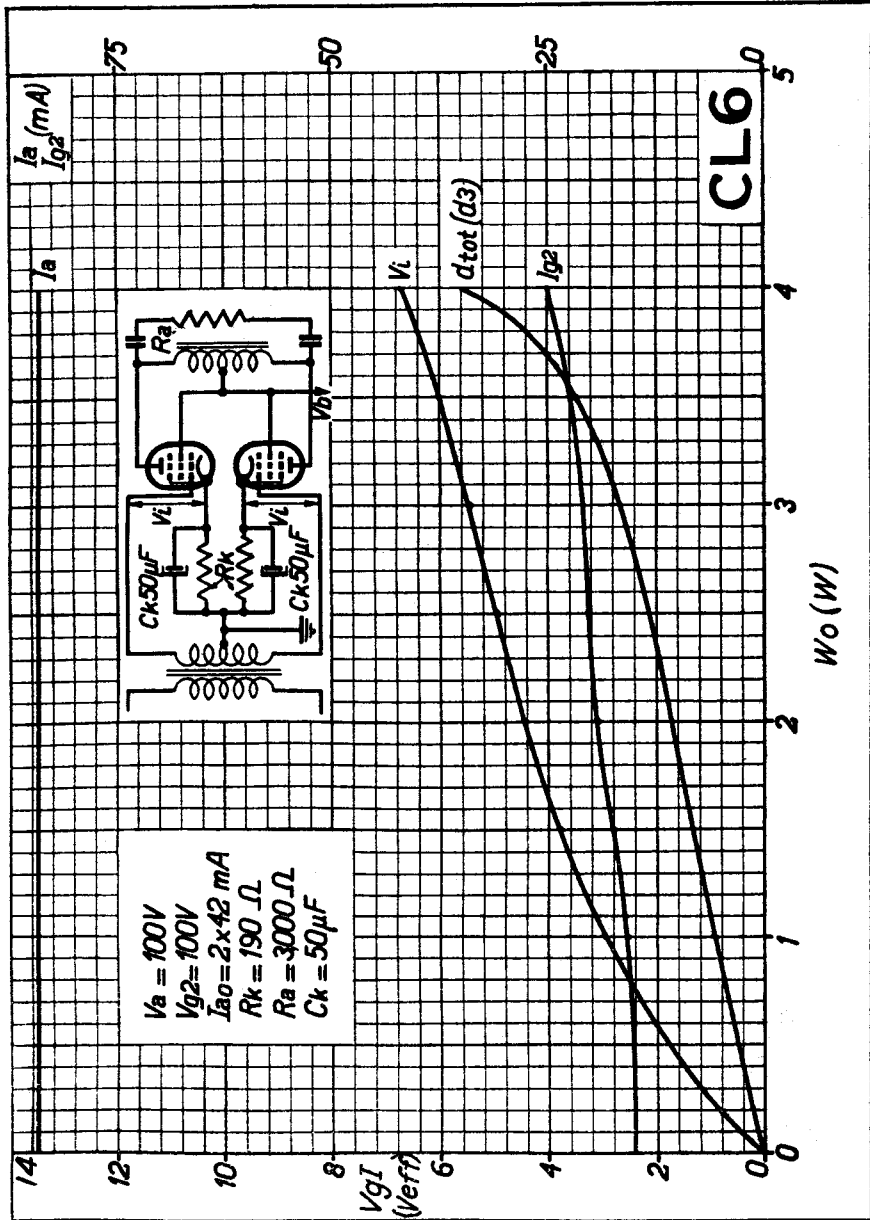
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