Mullard
Single Ended Short Wave H.F. Pentode

EF50

Heater		Vf	=	6.3 V
		If	=	0.300 A
Capacities	Valve cold	Cagl	=	< 0.003 uuF
		Cgl	=	7.8 uuF
		Ca	=	5.3 uuF
		Cglf	=	< 0.01 uuF
	Valve warm (Ia = 10 mA)	Cgl	=	10 uuF
		Ca	=	5.3 uuF
Damping	At 6 m. wavelength (Ia = 10 mA)	Rgl	=	4,000 ohms
		Ra	=	50,000 ohms

Operating Conditions - controlled by grid 3.

Va		250		V
Vg2		250		V
-Vgl		2		V
-Vg3	0 [1]		54 [2]	V
Ia	10		-	mA
Ig2	3		-	mA
Sgl/a	6.5		0.45	mA/V
Ri	1		-	megohms
g (gl/g2)	75		-	
Raeq.	1,400		-	ohms

Controlled by grid 1, with Rk = 32 ohms Ck = 50 uuF

Va		250		V
Vg2		250		V
Vg3		0		V
-Vgl	1.55 [1]		4.5 [3]	V
Ia	10		-	mA
Ig2	3		-	mA
Sgl/a	6.5		0.65	mA/V
Ri	1		-	megohms

Controlled by grids 1 and 3 via a potentiometer of 50,000 + 3,000 ohms.

Va		250		V
Vg2		250		V
-Vgl & 3	30 [1]		55.5 [3]	V
Ia	10		-	mA
Ig2	5.5		-	mA
Sgl/a	5.2		0.52	mA/V
Ri	0.1		-	megohms

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Controlled by grids 1 and 3 via a potentiometer of 50,000 + 4,000 ohms and with Rk = 32 ohms and Ck = 50 uuF.

Va		250		V
Vg2		250		V
-Vg1 & 3	20 [1]		51.5 [3]	V
Ia	10		-	mA
Ig2	4		-	mA
Sg1/a	6		0.6	mA/V
Ri	0.2		-	megohm

1) Valve not controlled by A.V.C.
2) For a 15 : 1 drop in mutual conductance (S g1/a)
3) For a 10 : 1 drop in mutual conductance (S g1/a)

Limits.

Vao max.	550	V
Va max.	300	V
Wa max.	3	W
Ik max.	15	mA
Vg2o max.	550	V
Vg2 max.	300	V
Wg2 max.	1.7	W
-Vg1 max. (Ig1 = +0.3 uA)	1.3	V
-Vg3 max. (Ig3 = +0.3 uA)	1.3	V
Rg1 max.	3	megohms
Rg3 max.	3	megohms
Vfk max.	100	V
Rfk max.	20,000	ohms
Cg1 max. (cold)	8.2	uuF
min.	7.4	uuF
Ca max. (cold)	5.7	uuF
min.	4.9	uuF
Cg1 max. (warm)	10.6	uuF
min.	9.4	uuF
Ca max. (warm)	5.9	uuF
min.	4.7	uuF

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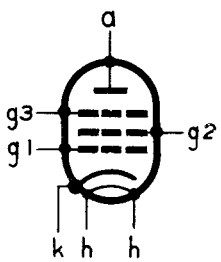
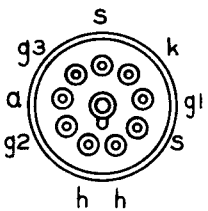
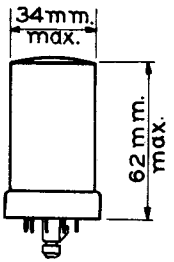
Arrangement of electrodes and base connections.







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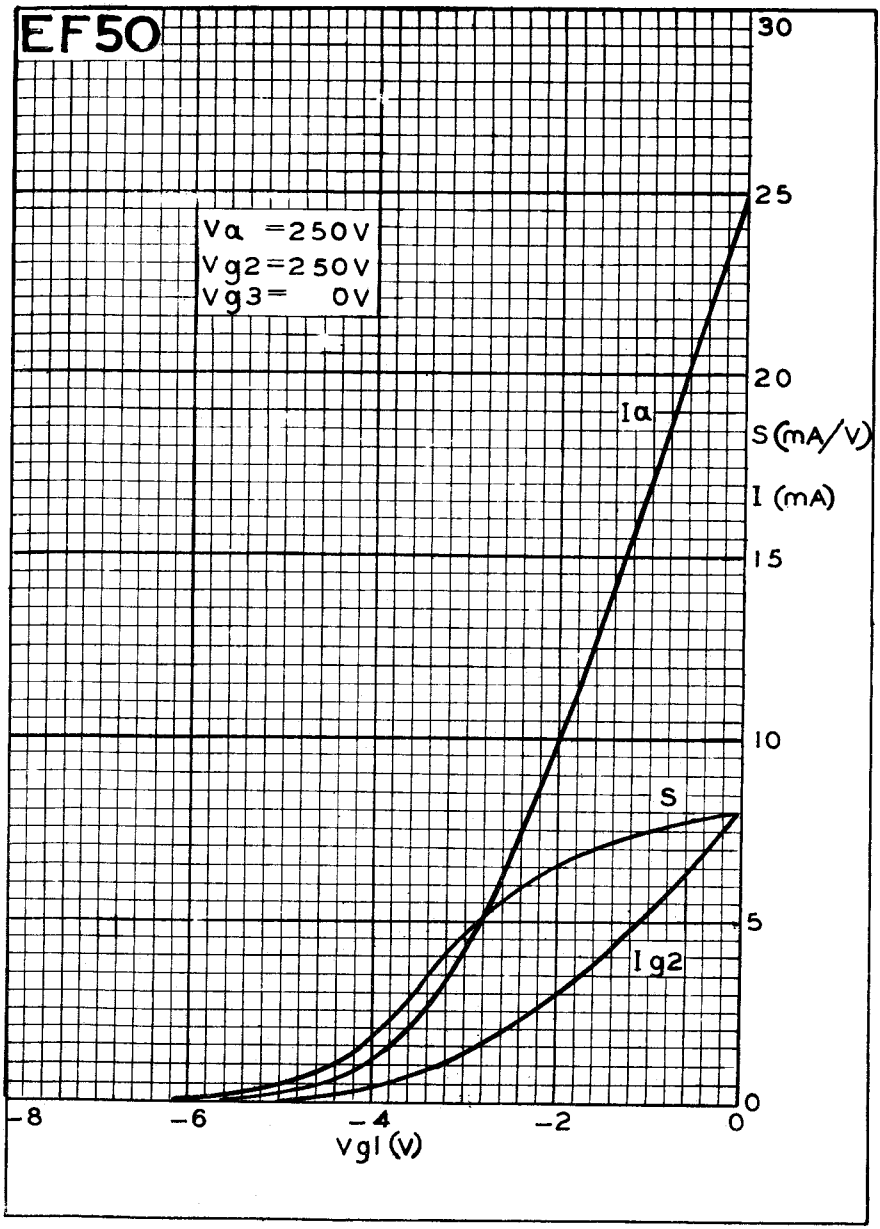

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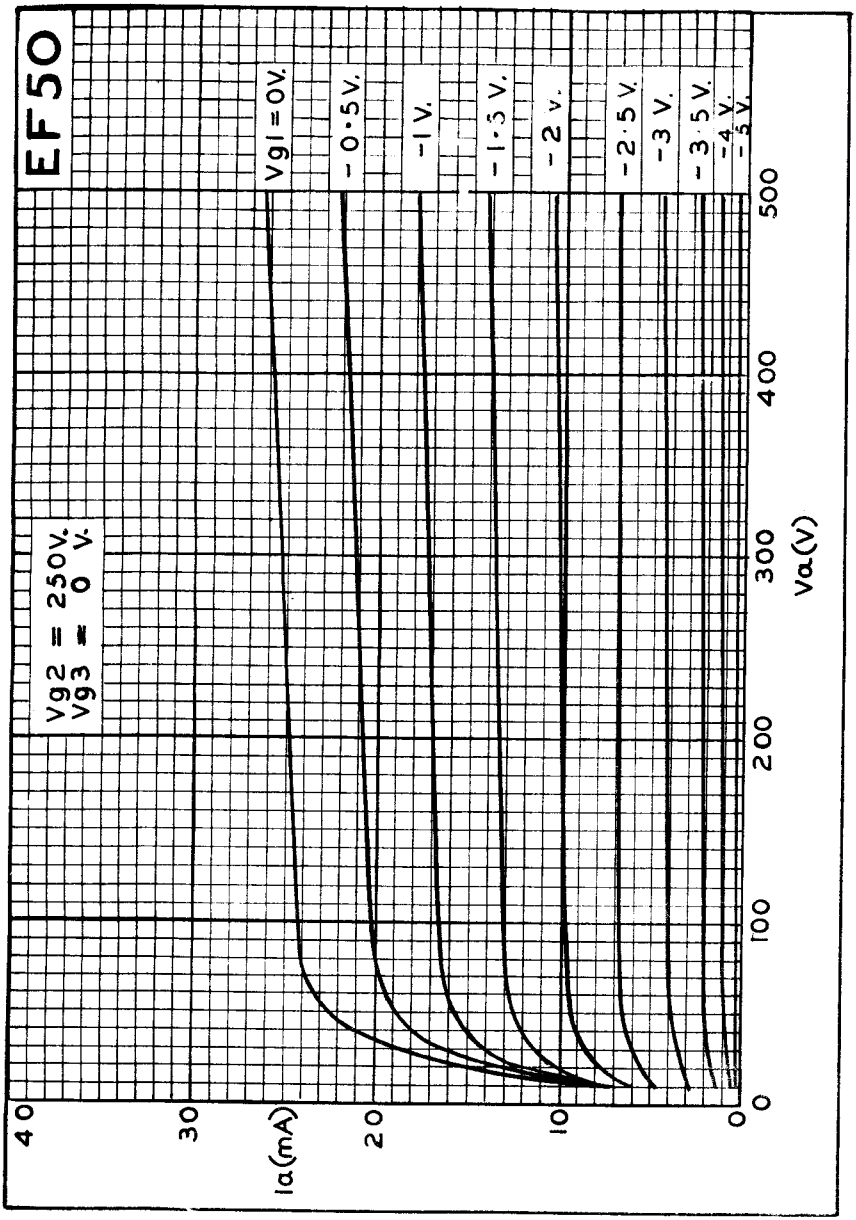

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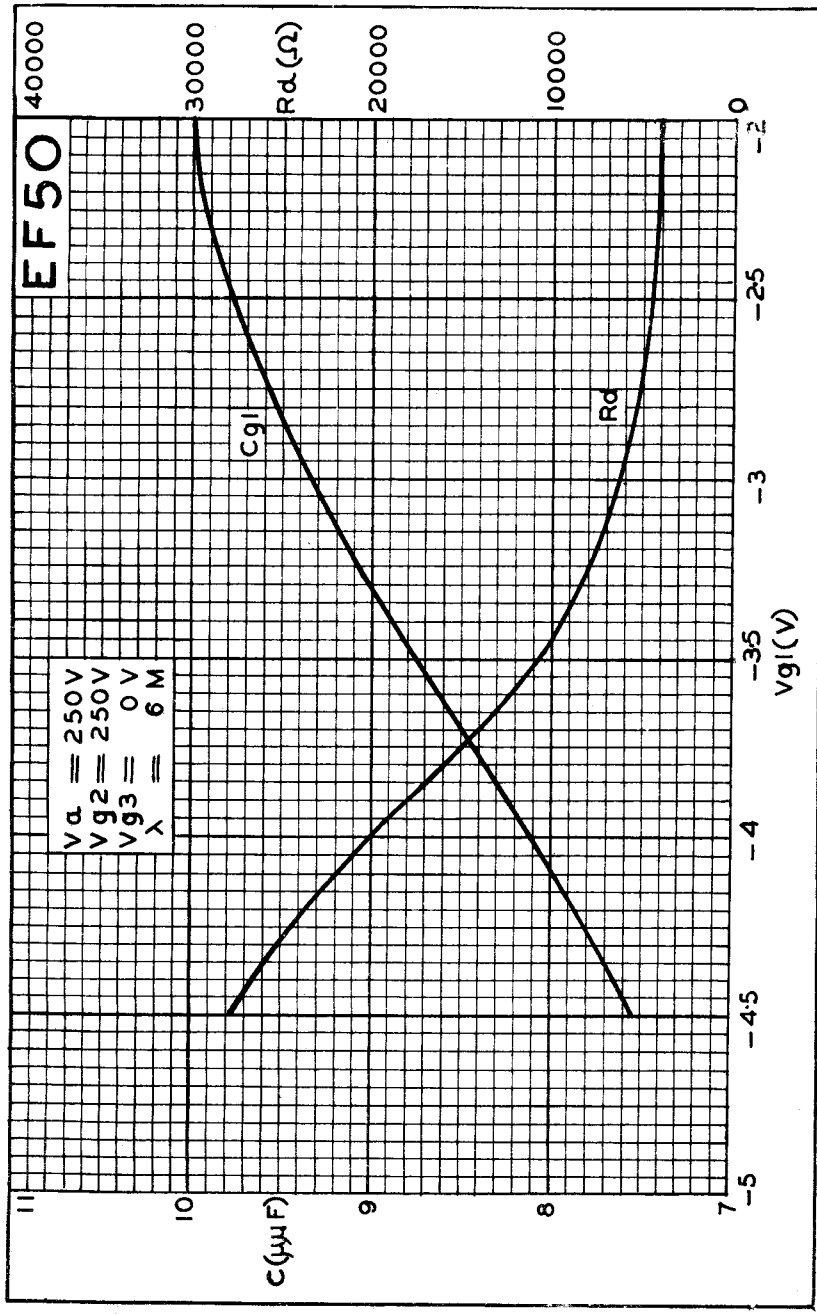

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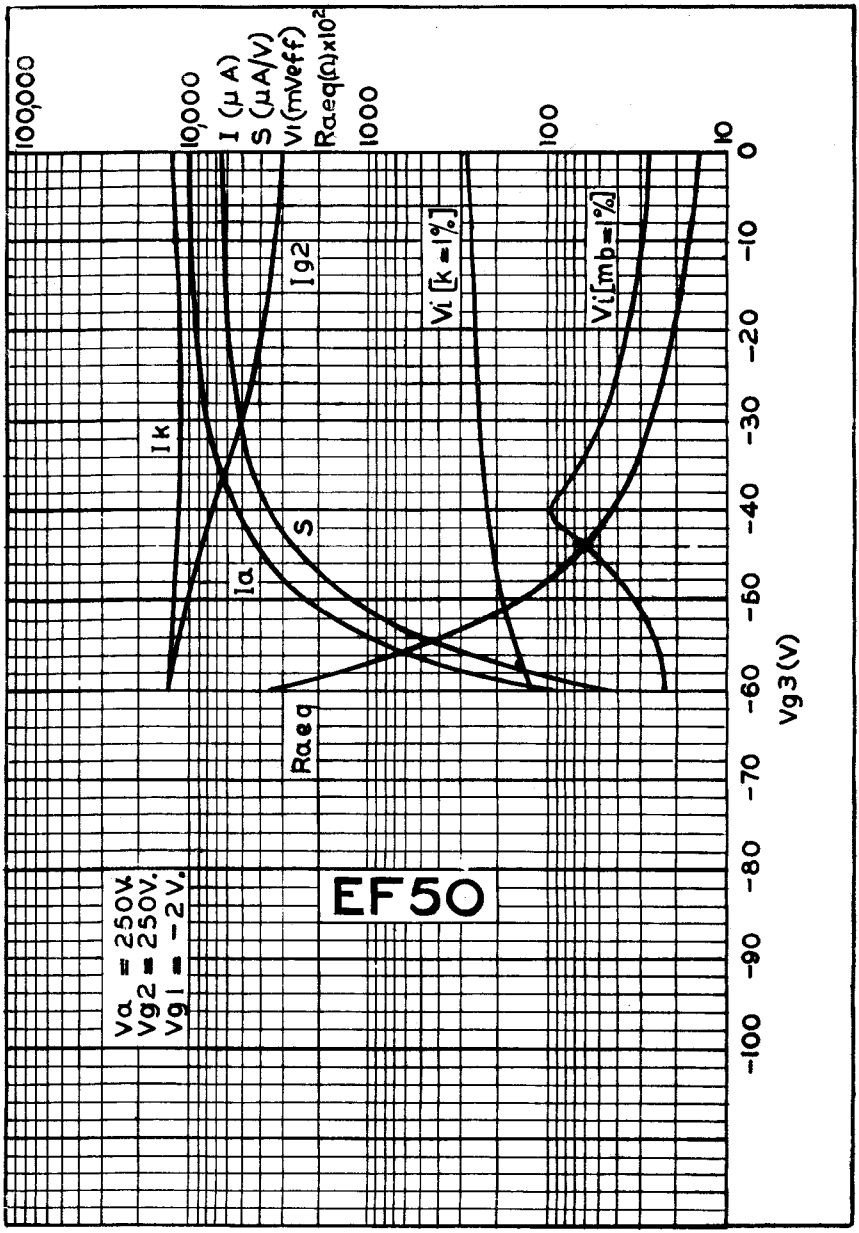

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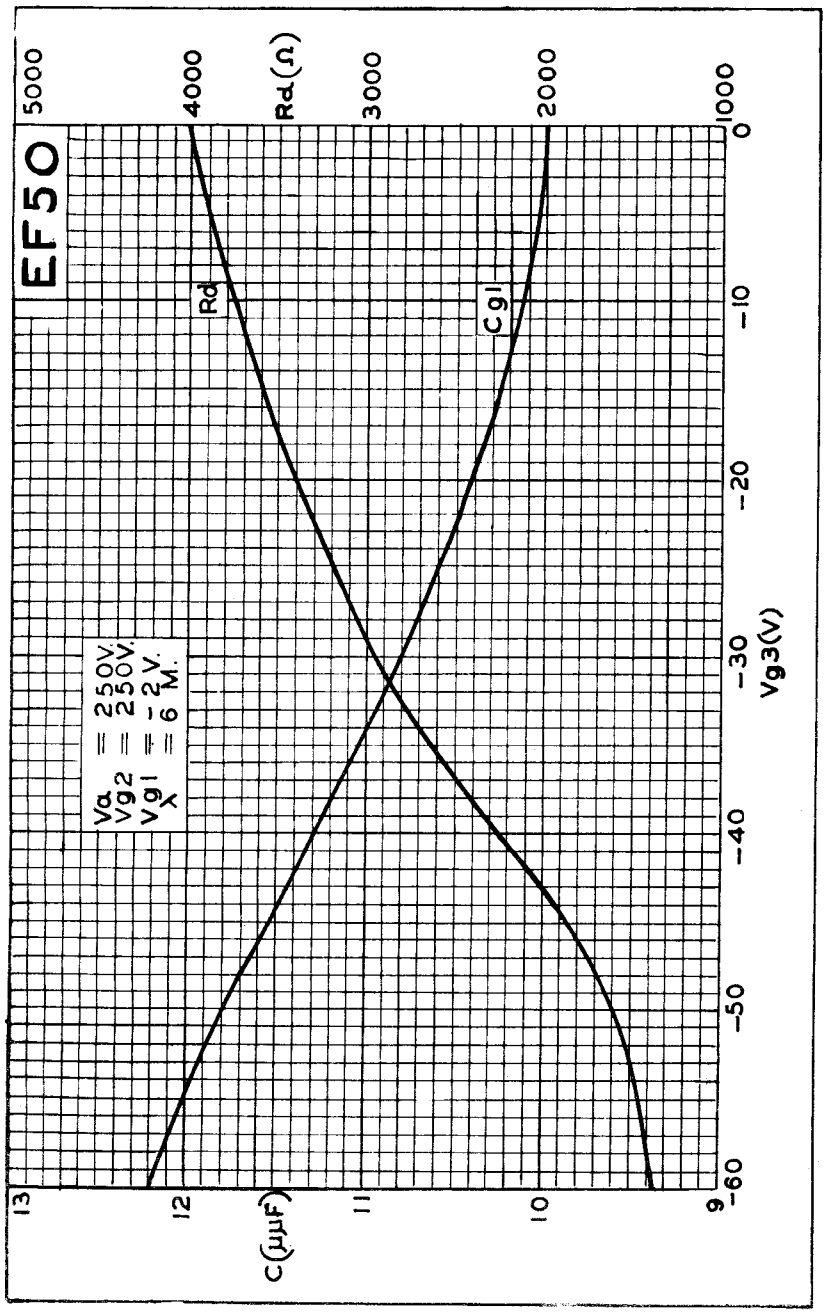

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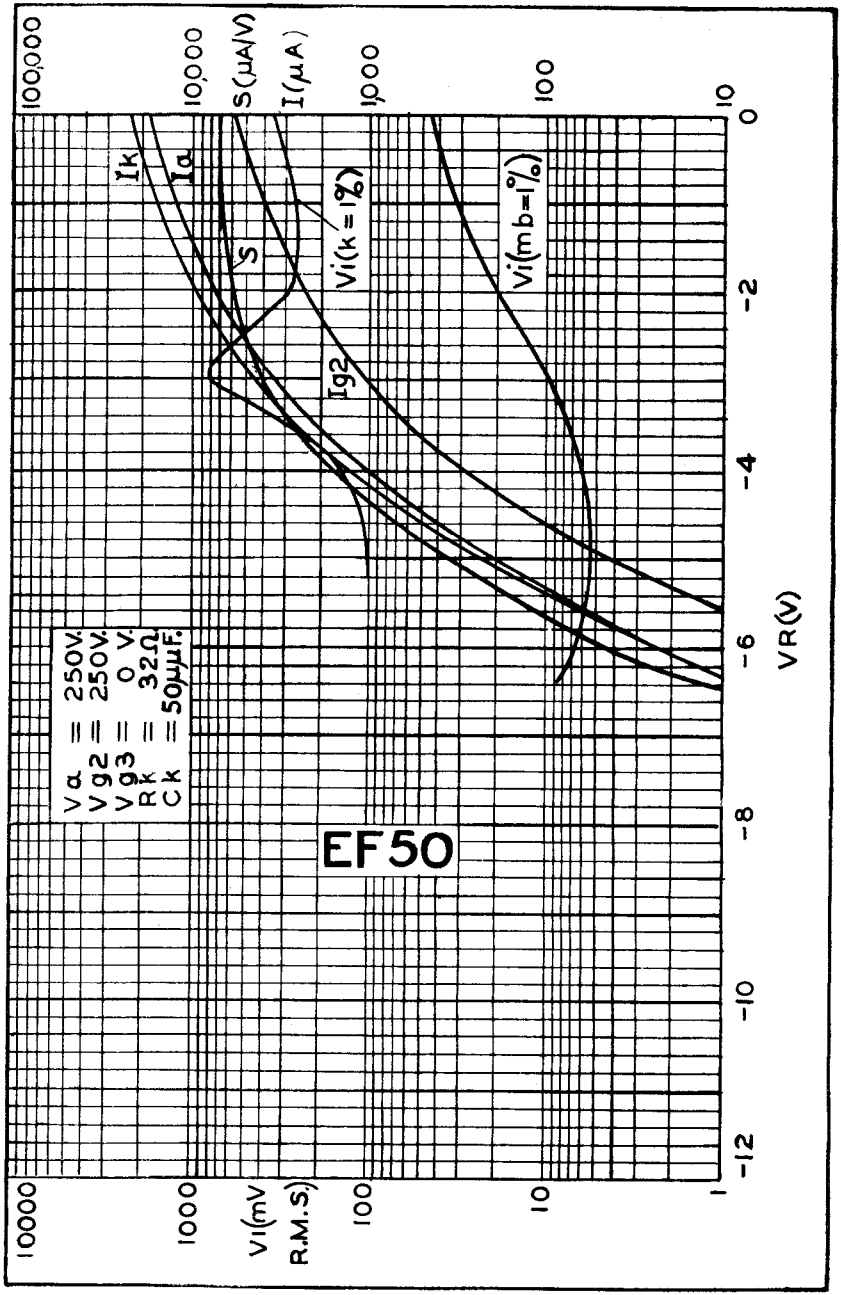

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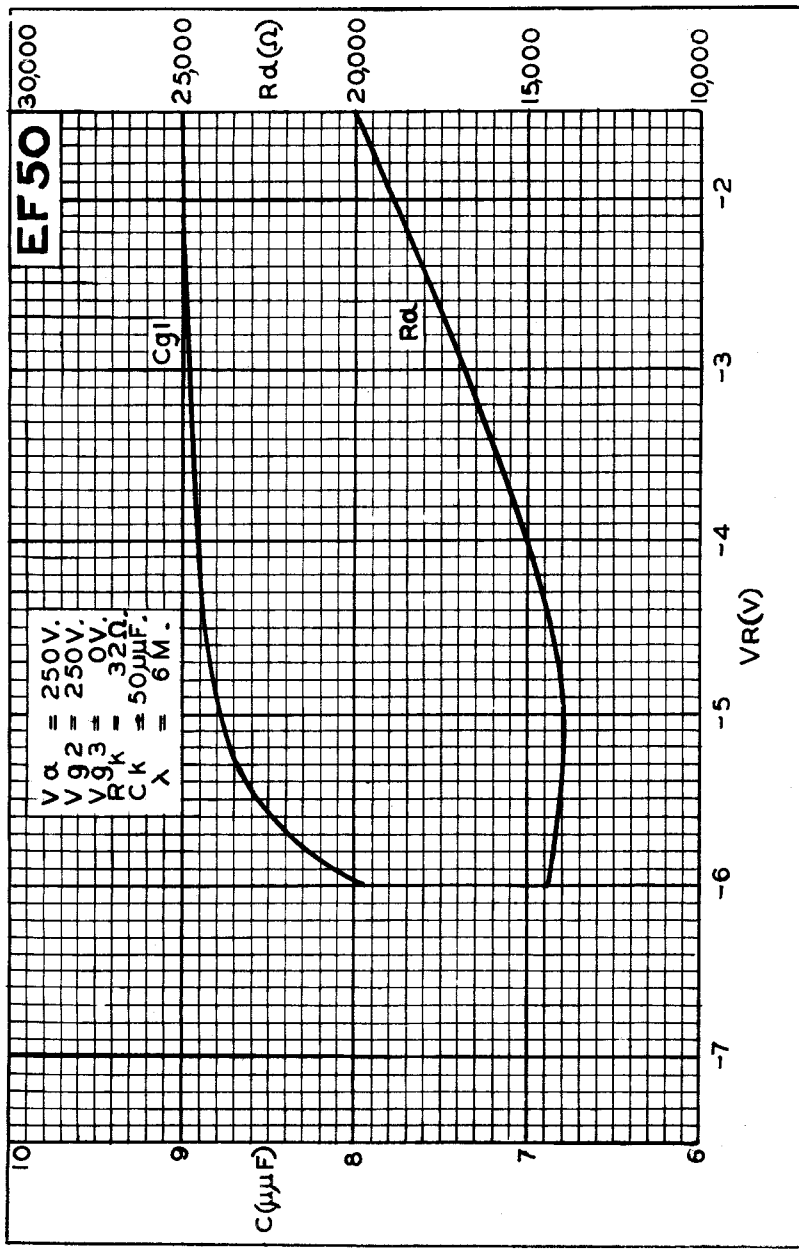

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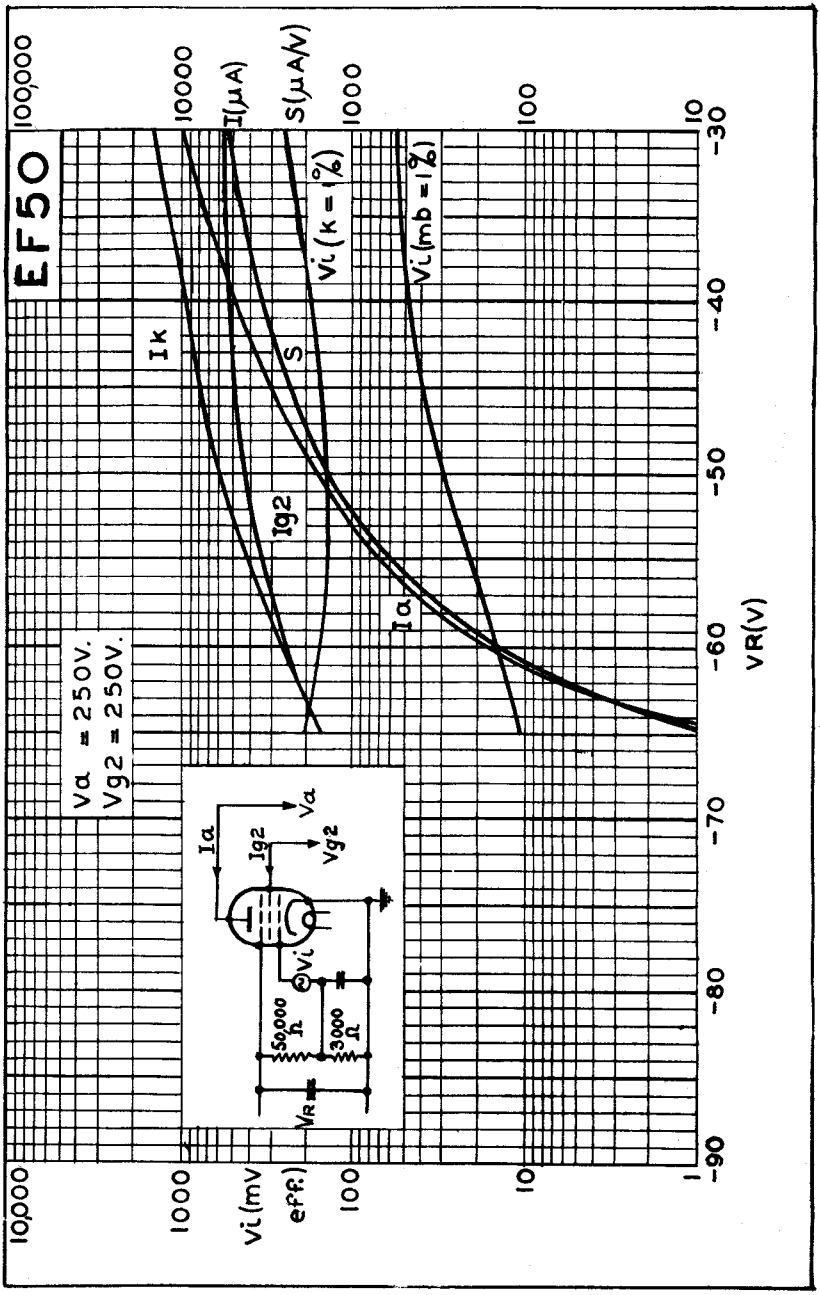

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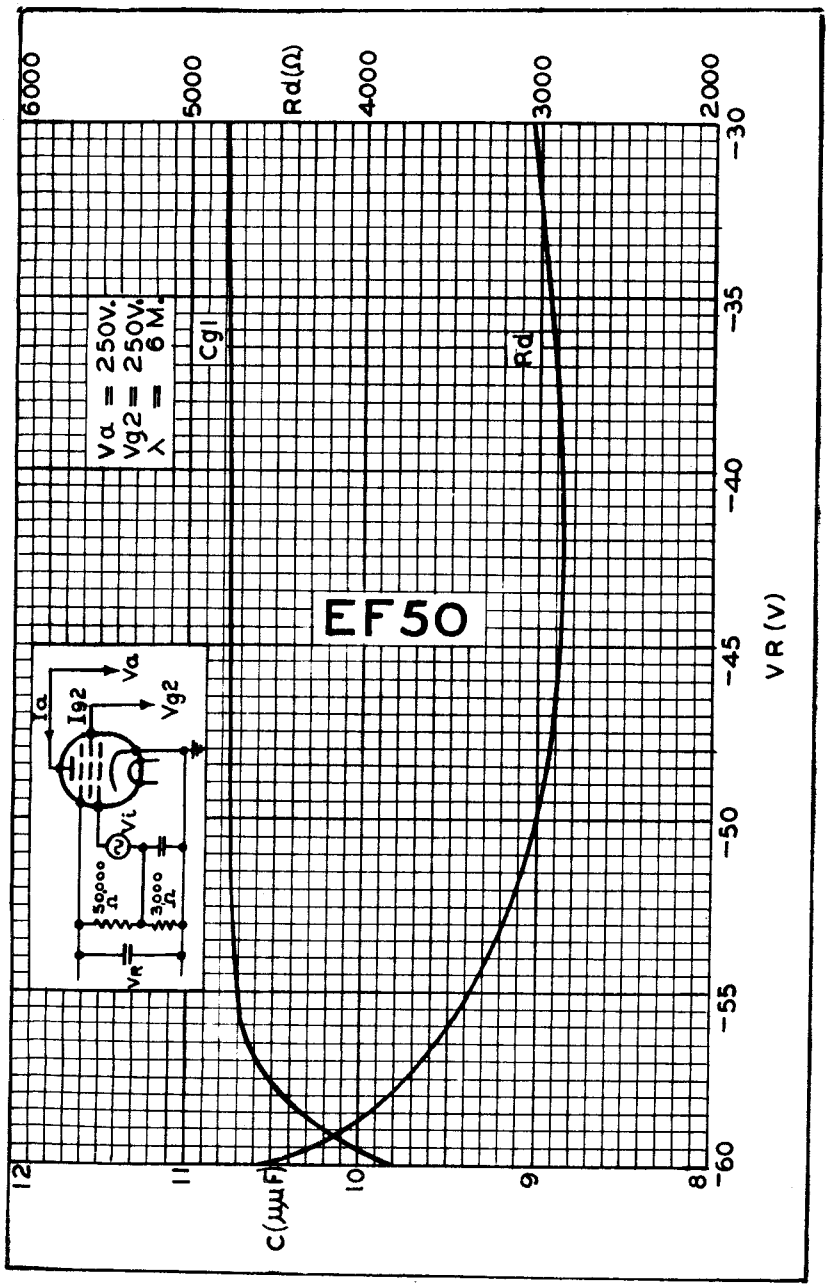

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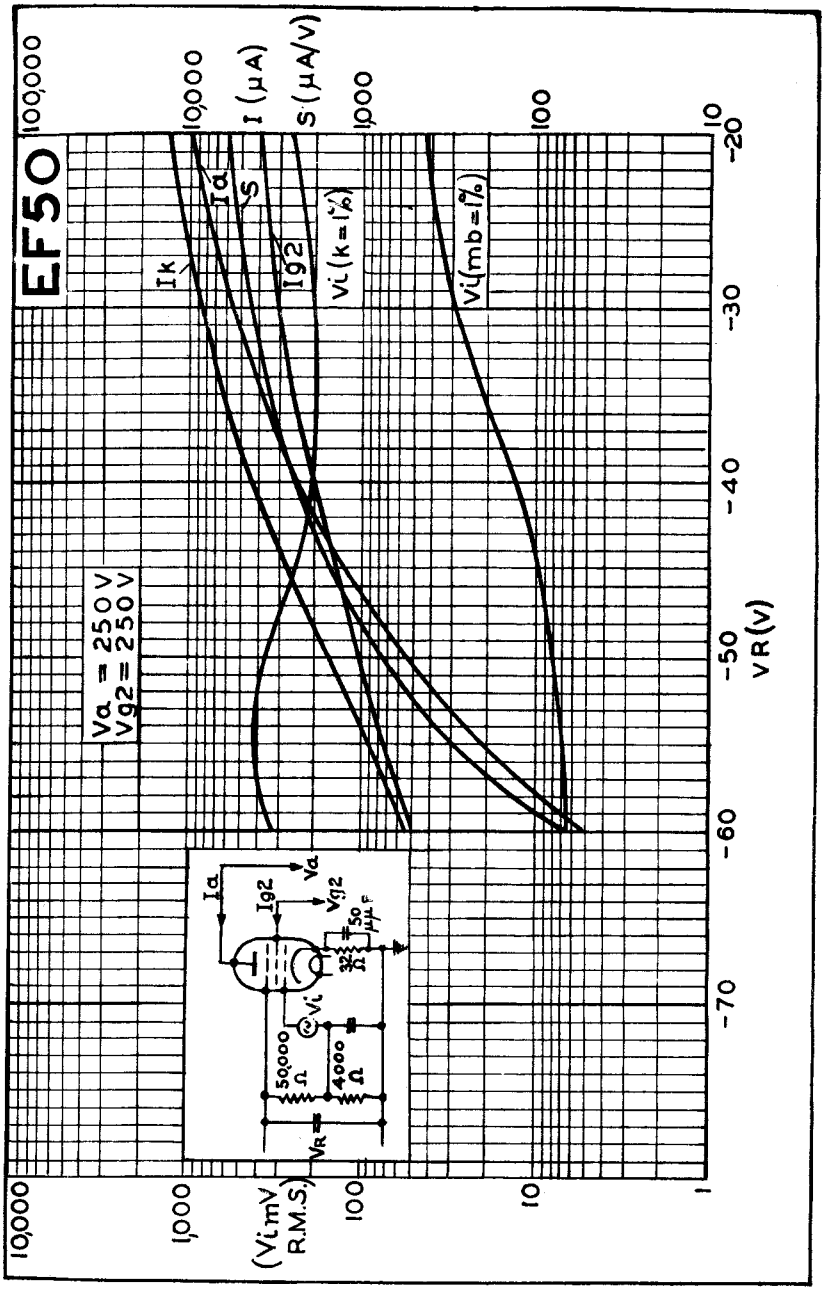

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