

Mullard

Single Ended Short Wave H.F. Pentode

EF50

Heater	Vf	=	6.3 V
	If	=	0.300 A

Capacities	Valve cold	Cgl	=	< 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
-Vg1	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 (g1/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
-Vg1	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
-Vg1 & 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

EF50

Controlled by grids 1 and 3 via a potentiometer of
50,000 + 4,000 ohms and with $R_k = 32$ ohms and
 $C_k = 50$ 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.

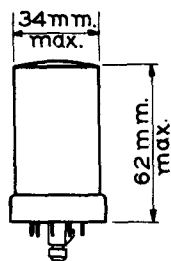
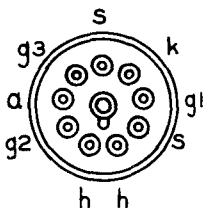
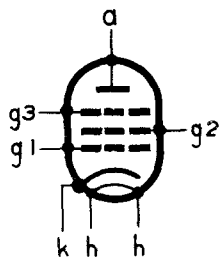
Vao max.....	550	V
Va max.....	300	V
Wa max.....	3	W
Ik max.....	15	mA
Vg2o max.....	550	V
Vg2 max.....	300	V
Wg2 max.....	1.7	W
-Vg1 max. (Igl = +0.3 uA)	1.3	V
-Vg3 max. (Ig3 = +0.3 uA)	1.3	V
Rg1 max.....	3	megohms
Rg3 max.....	3	megohms
Vfk max.....	100	V
Rfk max.....	20,000	ohms
Cg1 max. (cold)	8.2	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

Mullard

Single Ended Short Wave H.F. Pentode

EF50

Arrangement of electrodes and base connections.

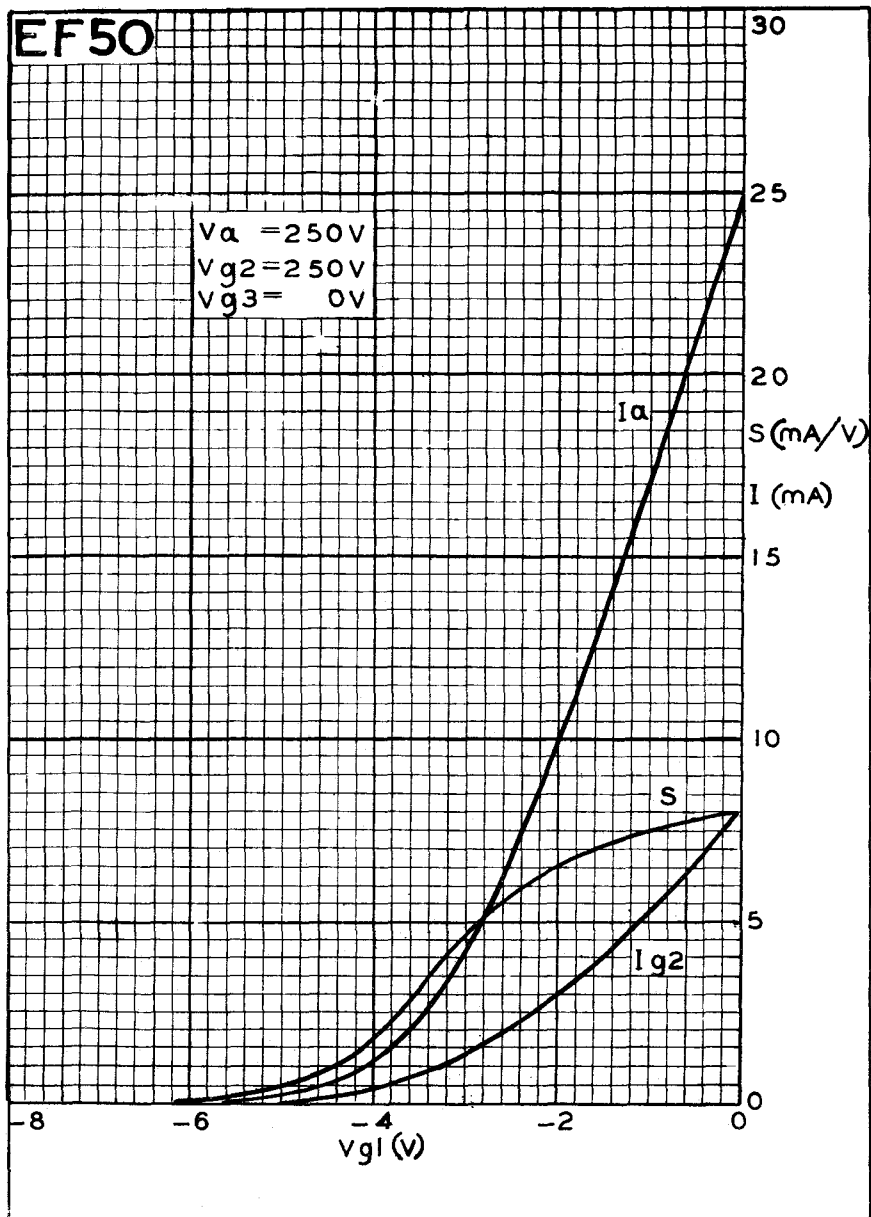


EF50

Mullard

Single Ended Short Wave H.F. Pentode

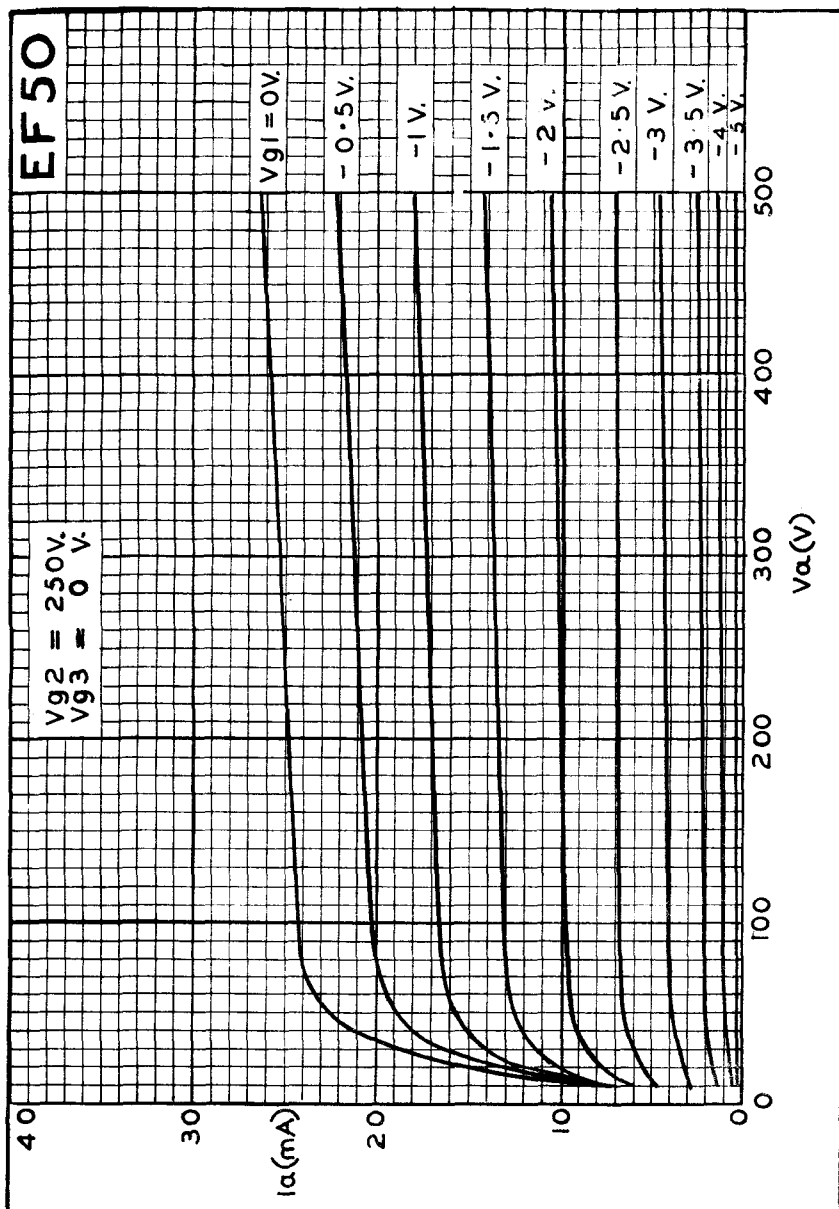
EF50



EF50

Mullard

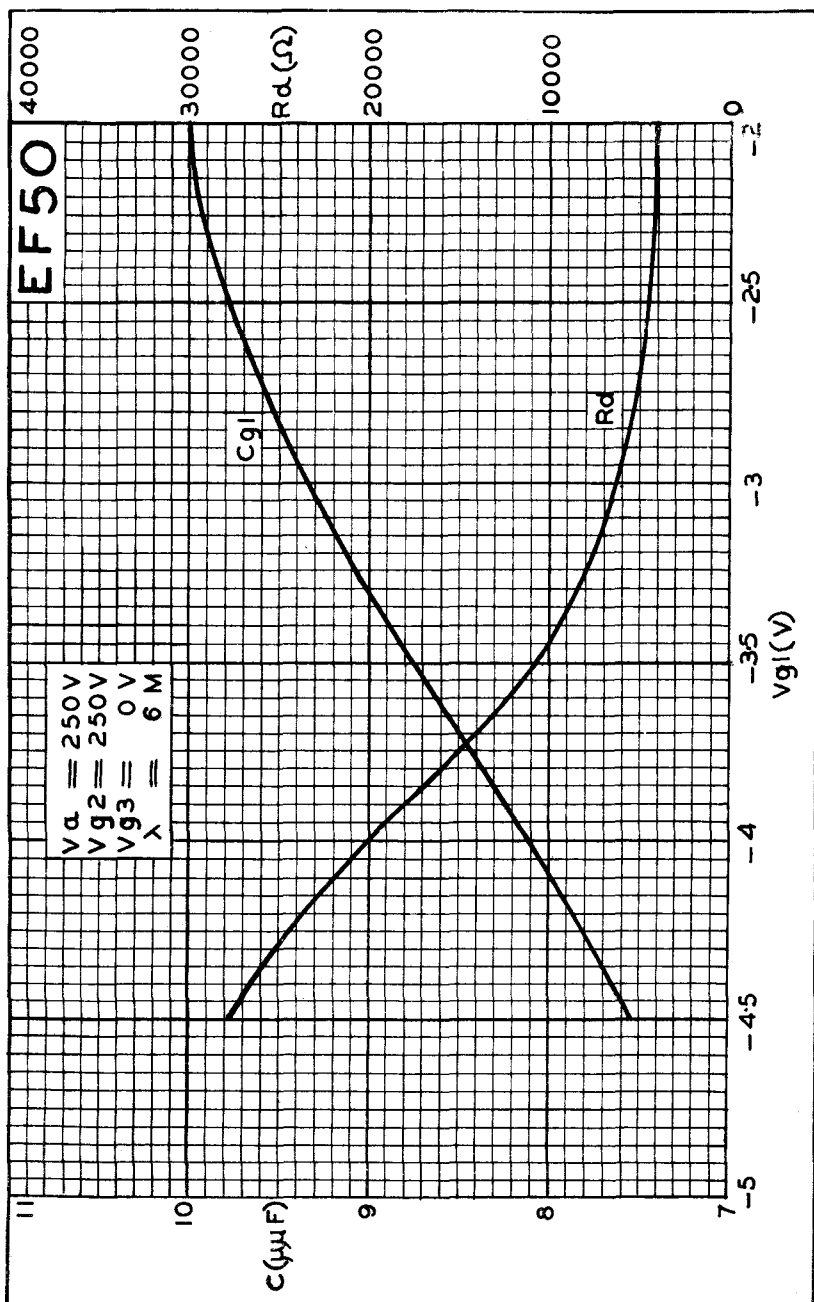
Single Ended Short Wave H.F. Pentode



Mullard

Single Ended Short Wave H.F. Pentode

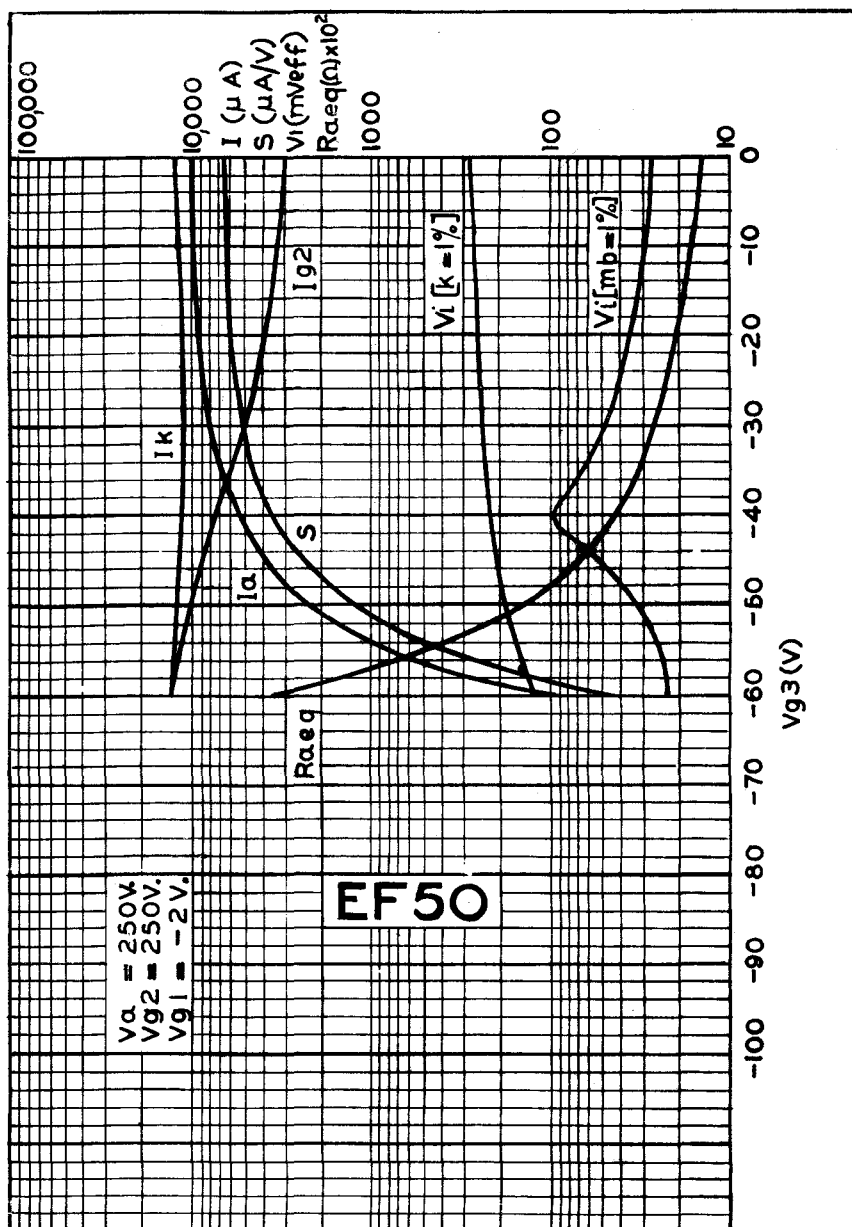
EF50



EF50

Mullard

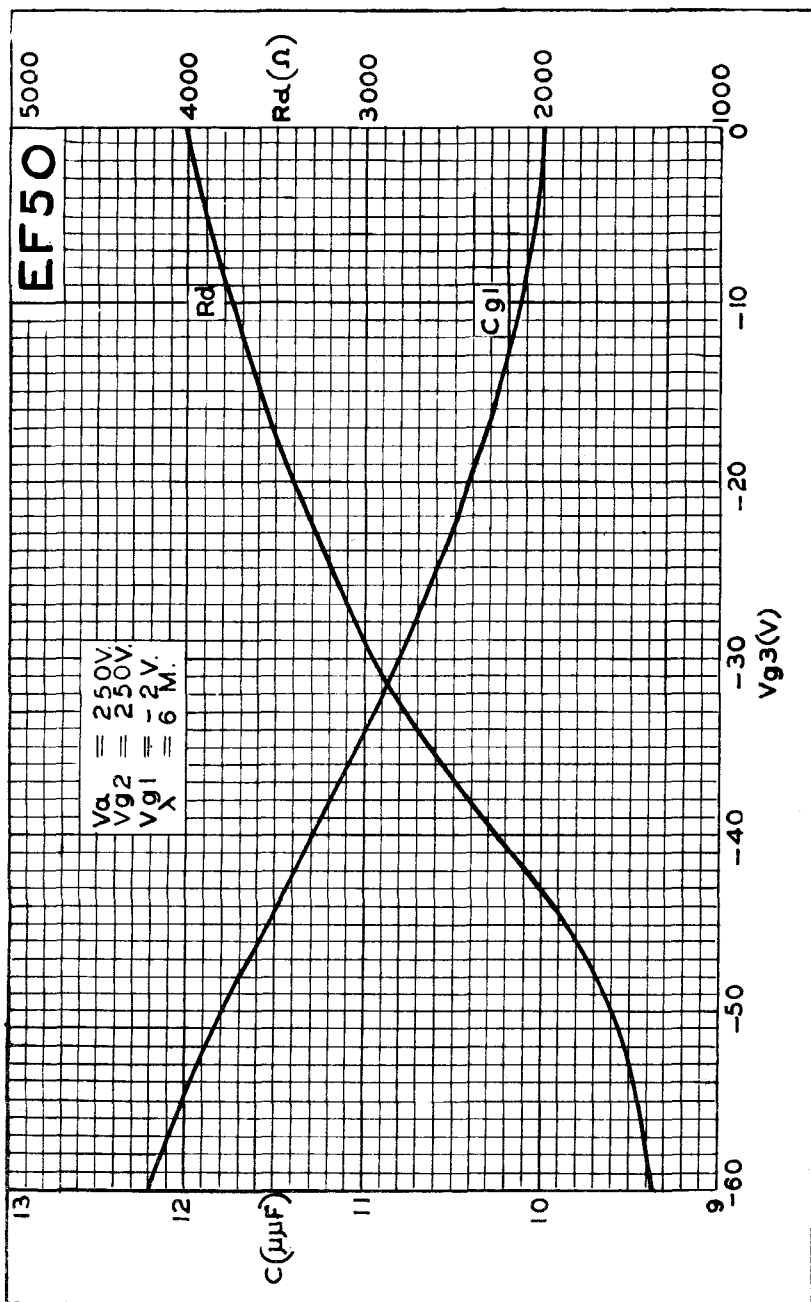
Single Ended Short Wave H.F. Pentode



Mullard

Single Ended Short Wave H.F. Pentode

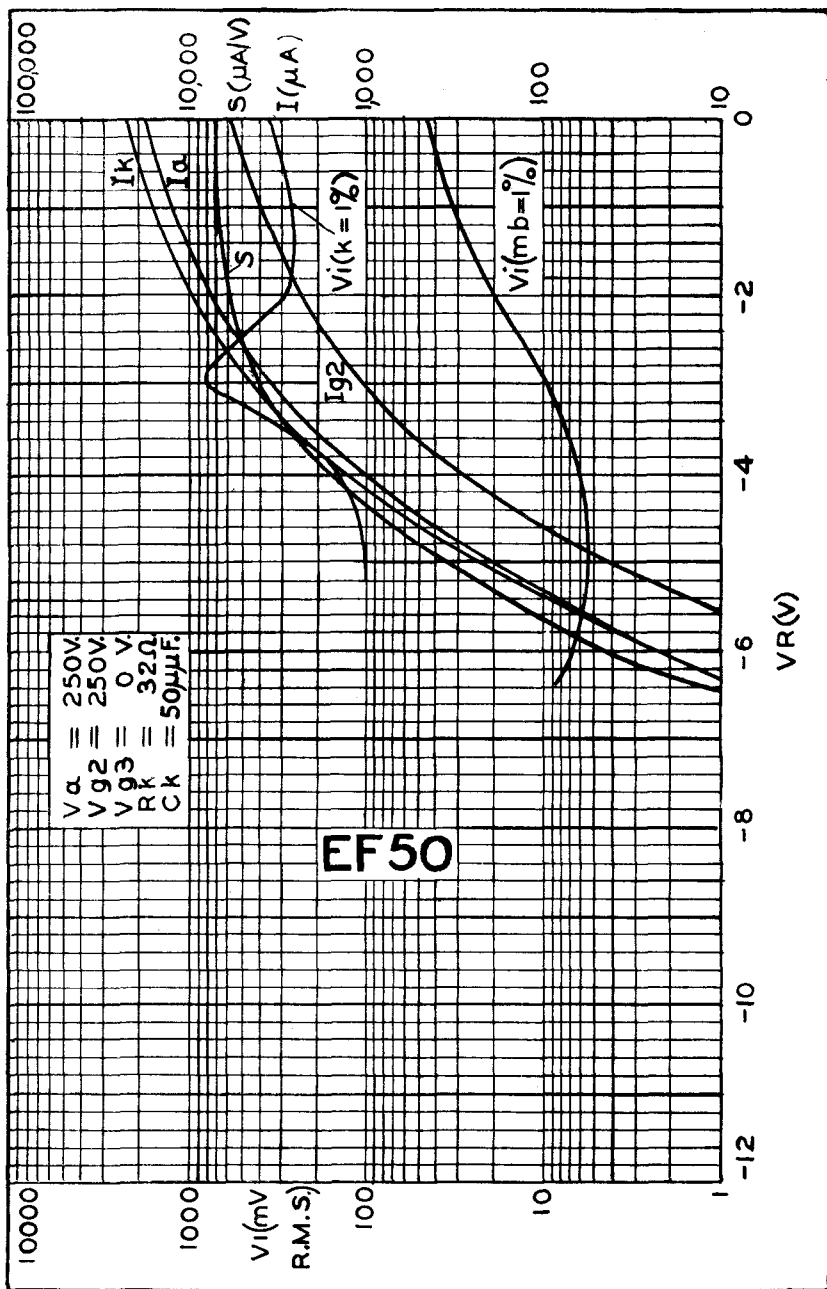
EF50



EF50

Mullard

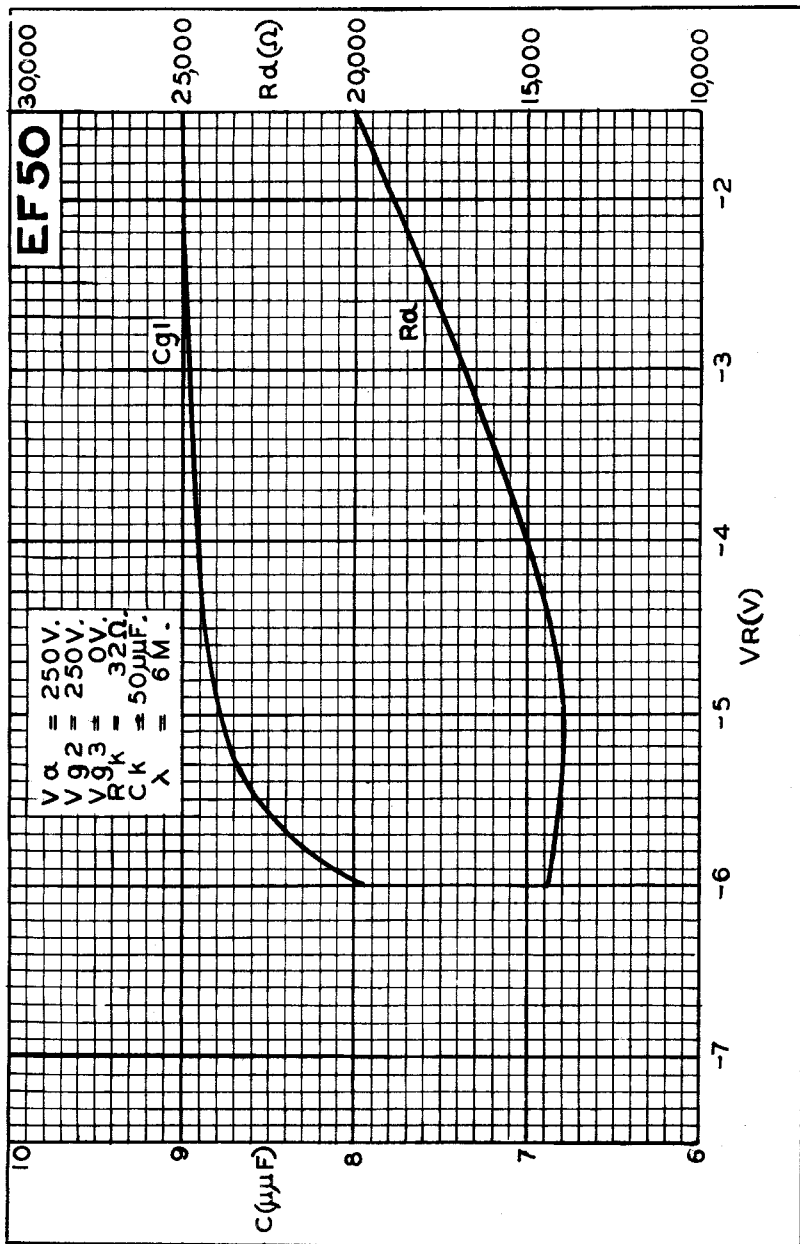
Single Ended Short Wave H.F. Pentode



Mullard

Single Ended Short Wave H.F. Pentode

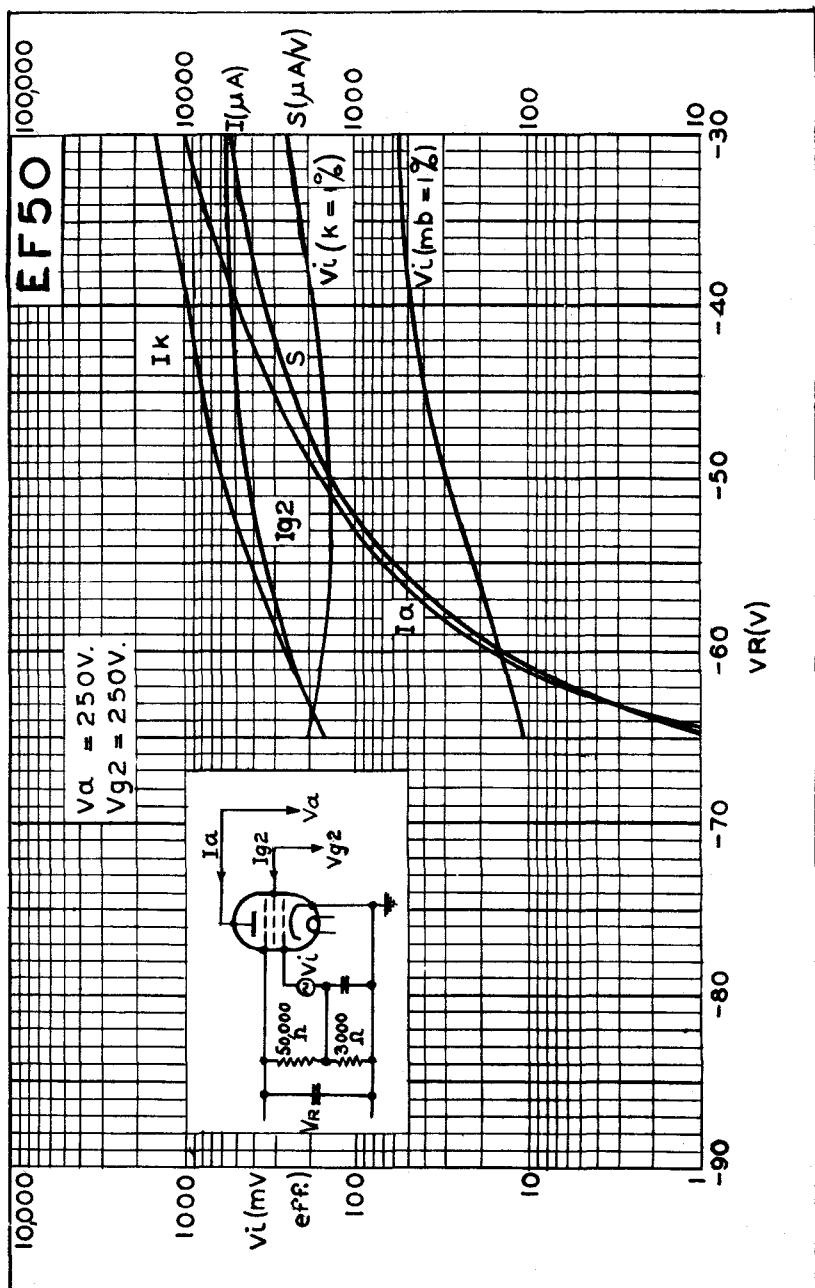
EF50



EF50

Mullard

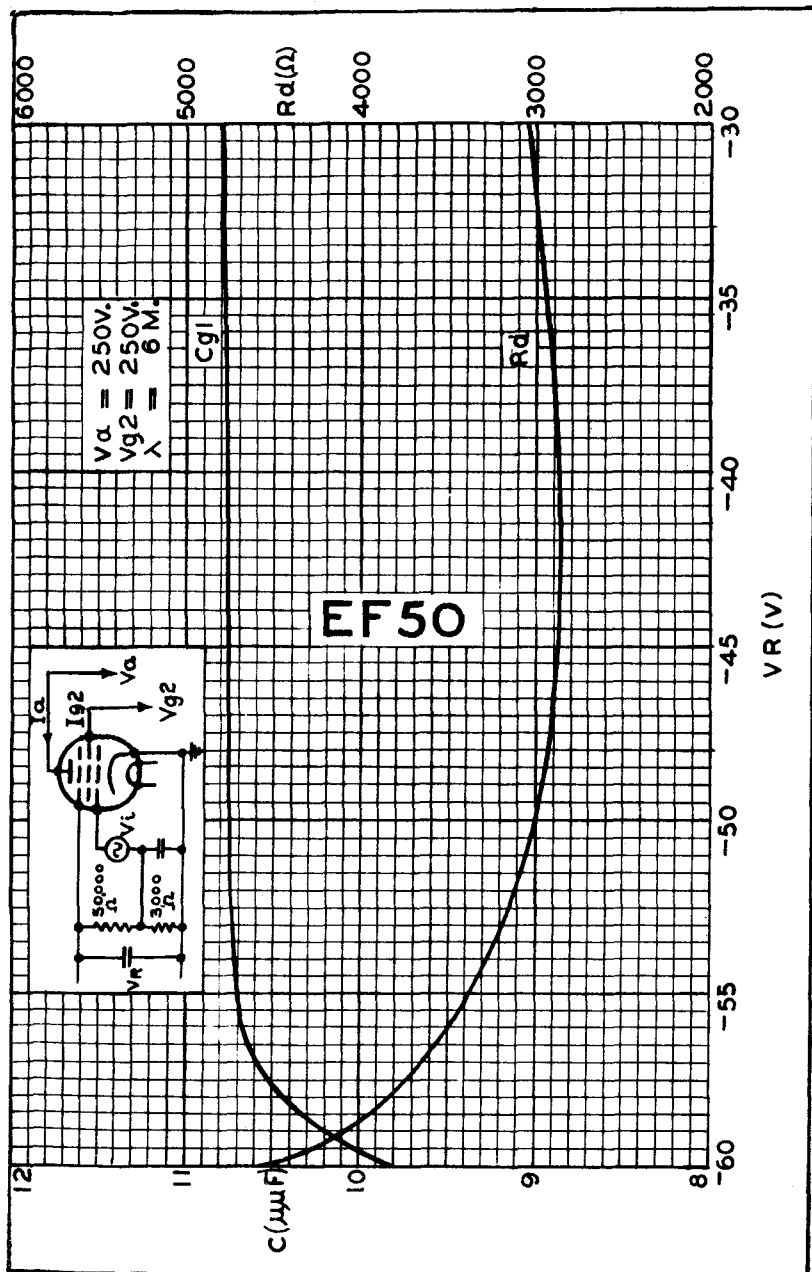
Single Ended Short Wave H.F. Pentode



Mullard

Single Ended Short Wave H.F. Pentode

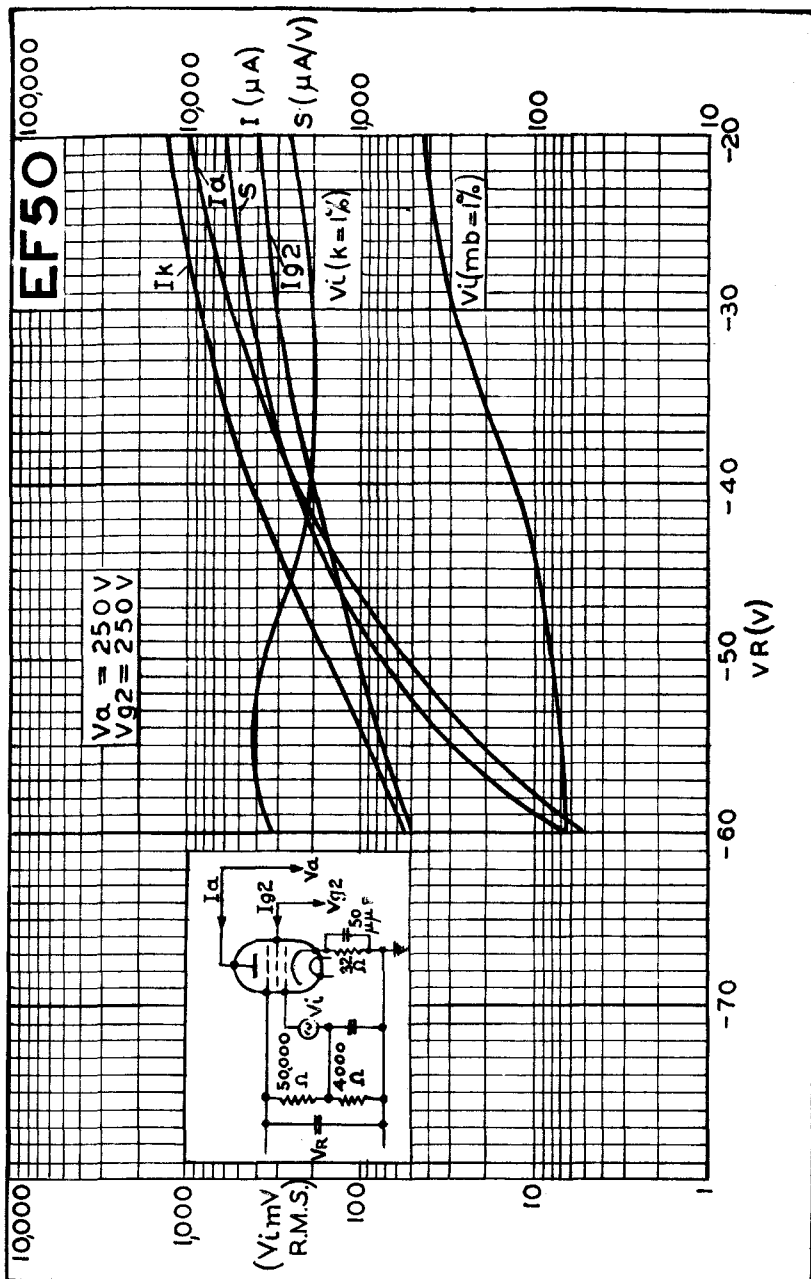
EF50



EF50

Mullard

Single Ended Short Wave H.F. Pentode



Mullard

Single Ended Short Wave H.F. Pentode

EF50

