

R.F. PENTODE

EF50

Single-ended r.f. pentode, fully controlled by voltages of 0 to -6V or 0 to -55V according to the circuit used.

HEATER

Suitable for series or parallel operation a.c. or d.c.

V_h	6.3	V
I_h	300	mA

CAPACITANCES

	Min.	Av.	Max.	
C_{a-g1}	—	—	0.007	pF
C_{g1-g2}	—	2.4	—	pF
C_{in}	7.1	8.3	9.5	pF
C_{out}	4.8	5.2	5.6	pF

OPERATING CONDITIONS

V_a	250	250	250	250	V
V_{g2}	250	250	250	250	V
V_{g1-e}	-2	-1.55*	**	††	V
V_{g3}	0*	0	-30*	-20*	V
I_a	10	10	10	10	mA
I_{g2}	3.0	3.0	5.5	4.0	mA
g_m	6.5	6.5	5.2	6.0	mA/V
r_a	1.0	1.0	0.1	0.2	MΩ
μ_{g1-g2}	75	—	—	—	
R_{eq}	1.4	—	—	—	kΩ
Input damping ($f=50\text{Mc/s}$)	4.0	—	—	—	kΩ
Output damping ($f=50\text{Mc/s}$)	50	—	—	—	kΩ
R_k	0	32	0	32	Ω
C_k	0	50	0	50	pF
V_{g1} (for 10 : 1 reduction in g_m)	—	-4.5	**	††	V
V_{g3} (for 10 : 1 reduction in g_m)	-53	—	-55.5	-51.5	V

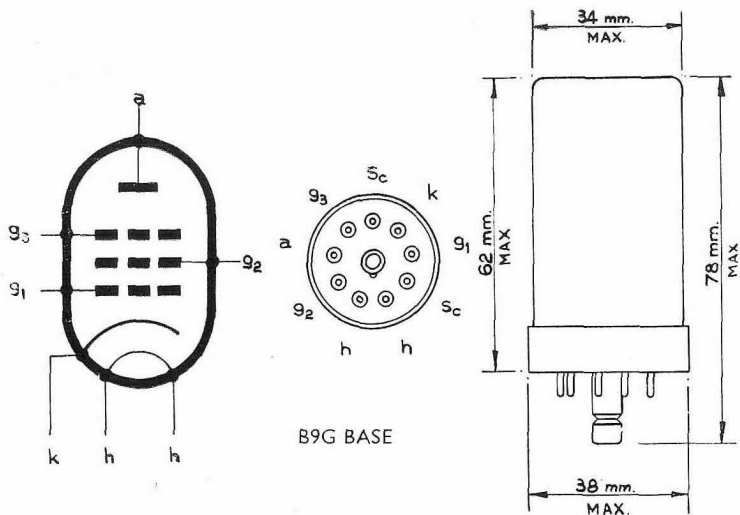
* Valve not controlled by a.g.c.

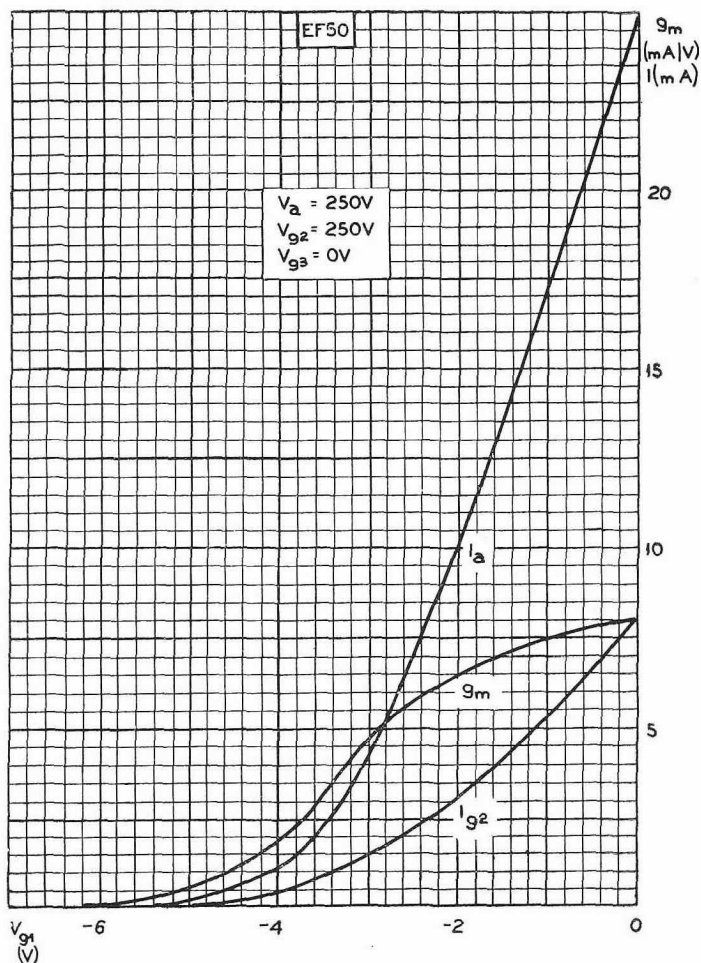
** V_{g1} is obtained from V_{g3} by means of a potentiometer of 50kΩ and 3kΩ.

†† V_{g1} is obtained from V_{g3} by means of a potentiometer of 50kΩ and 4kΩ.

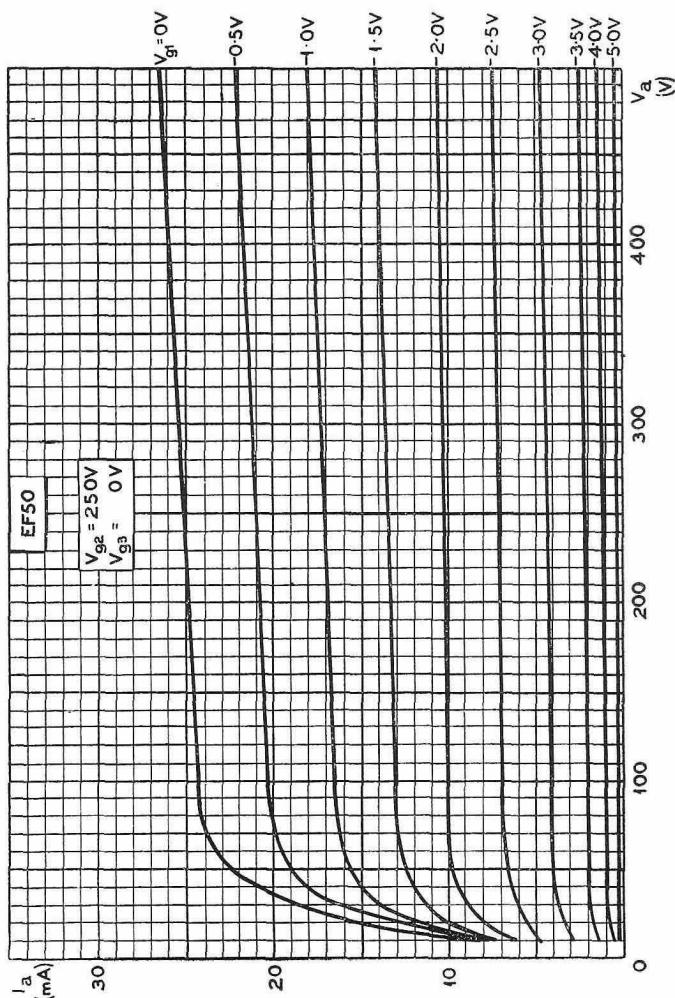
LIMITING VALUES

V_a (b) max.	550	V
V_{ak} max.	300	V
p_a max.	3	W
I_k max.	15	mA
V_{g2} (b) max.	550	V
V_{g2} max.	300	V
p_{g2} max.	1.7	W
V_{g1} max. ($I_{g1} = -1.0 \mu A$)	-1.3	V
V_{g3} max. ($I_{g3} = +0.3 \mu A$)	-1.3	V
R_{g1} max.	3	M Ω
R_{g3} max.	3	M Ω
V_{h-k} max.	100	V
R_{h-k} max.	20	k Ω





ANODE AND SCREEN-GRID CURRENTS AND MUTUAL CONDUCTANCE
PLOTTED AGAINST CONTROL-GRID VOLTAGE

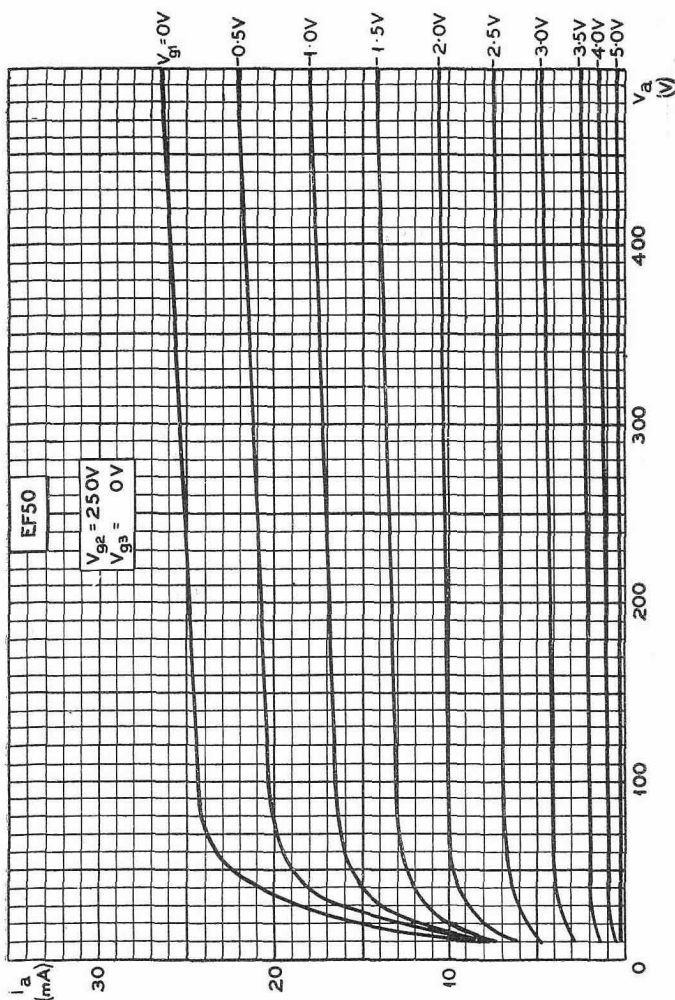


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

R.F. PENTODE

EF50

Single-ended R.F. pentode, fully controlled by voltages of 0 to -6V or 0 to -55V according to the circuit used.

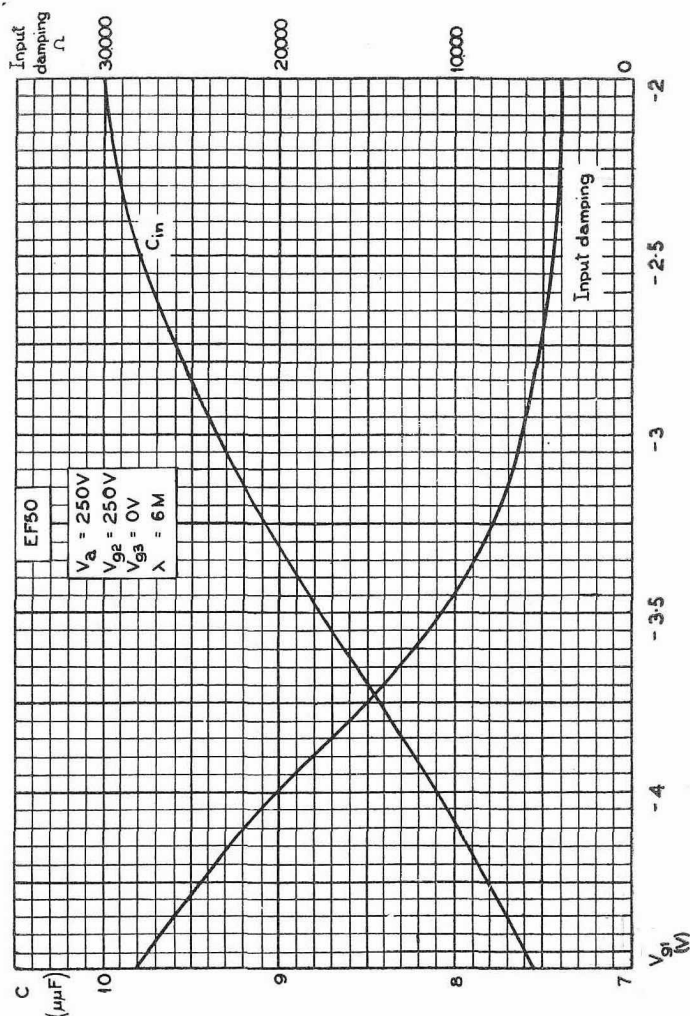


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

EF50

R.F. PENTODE

Single-ended R.F. pentode, fully controlled by voltages of 0 to -6V or 0 to -55V according to the circuit used.

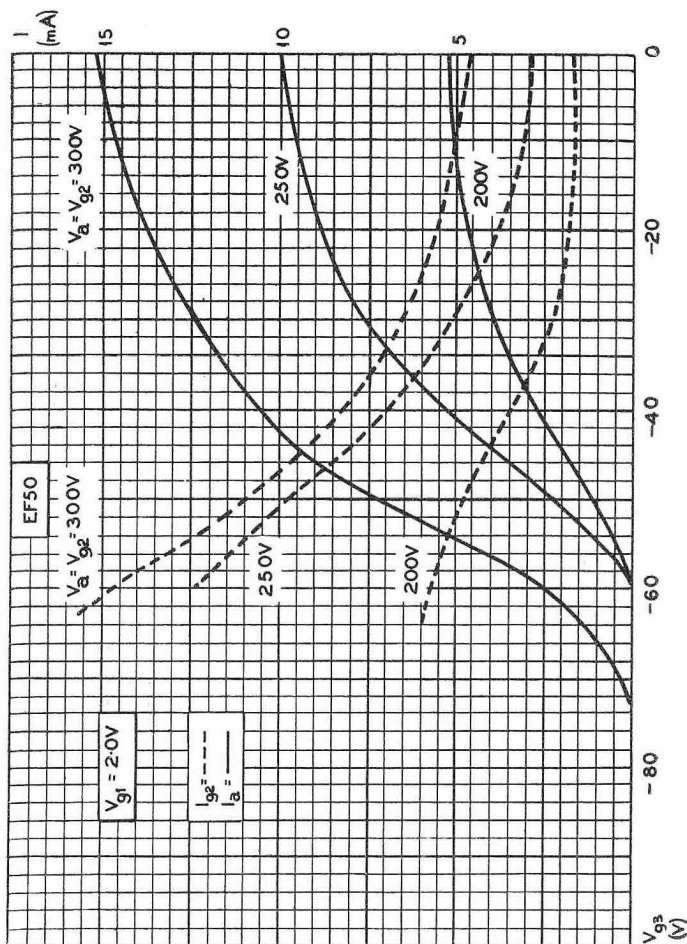


INPUT DAMPING AND INPUT CAPACITANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE AT 50 MC/S

R.F. PENTODE

EF50

Single-ended R.F. pentode, fully controlled by voltages of 0 to -6V or 0 to -55V according to the circuit used.

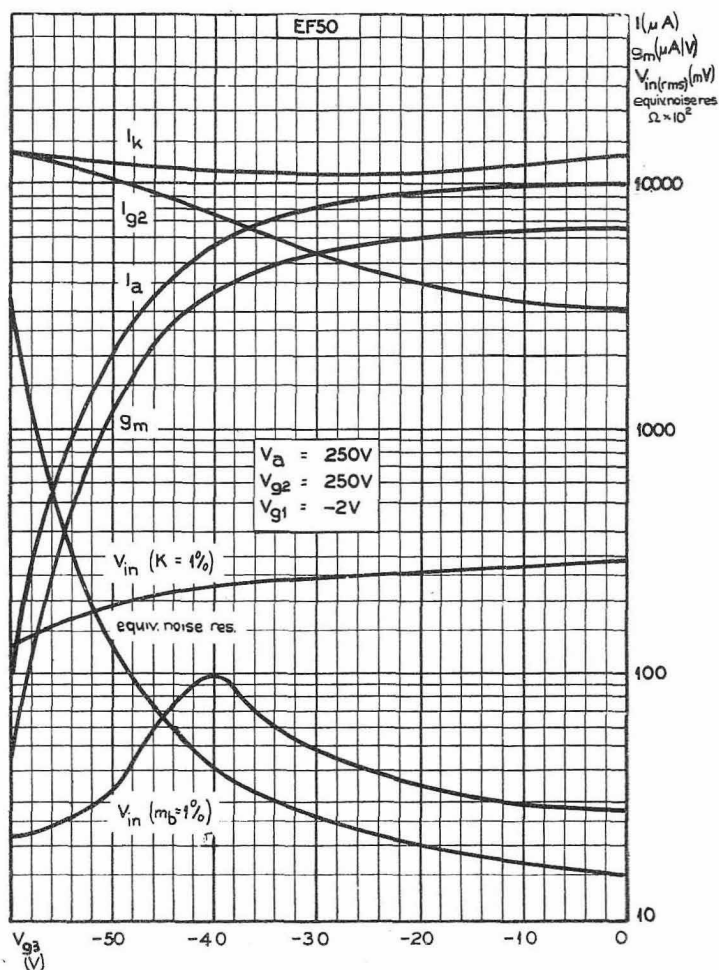


ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST SUPPRESSOR-GRID VOLTAGE

EF50

R.F. PENTODE

Single-ended R.F. pentode, fully controlled by voltages of 0 to $-6V$ or 0 to $-55V$ according to the circuit used.

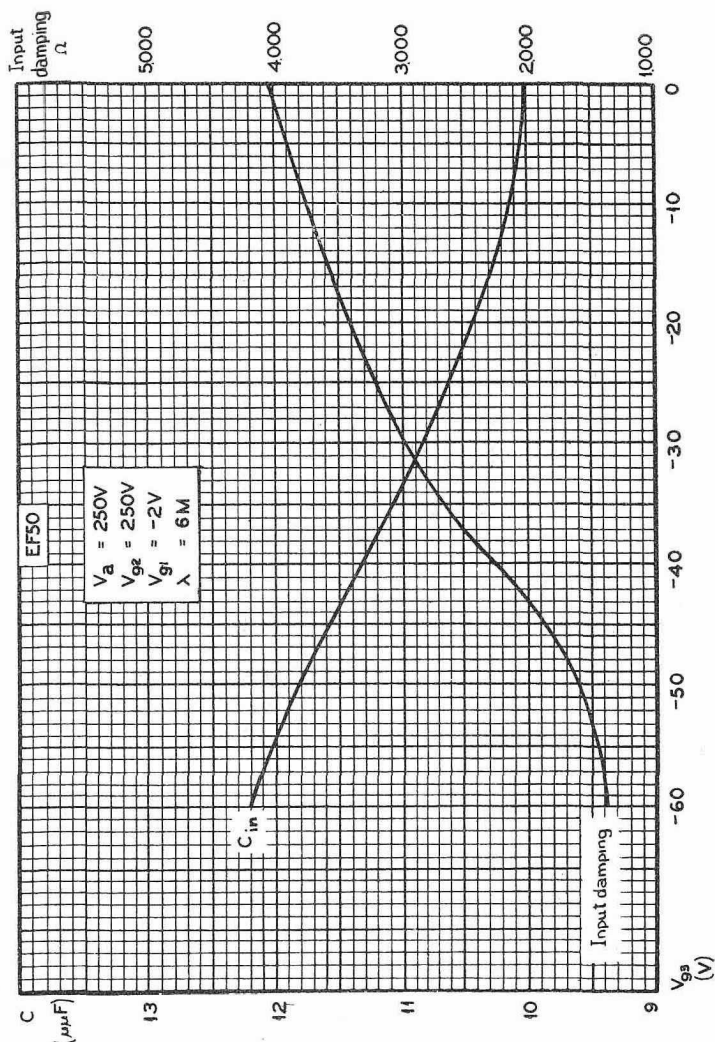


CONTROL CHARACTERISTICS WHEN CONTROLLED BY
SUPPRESSOR-GRID VOLTAGE

R.F. PENTODE

EF50

Single-ended R.F. pentode, fully controlled by voltages of 0 to -6V or 0 to -55V according to the circuit used.

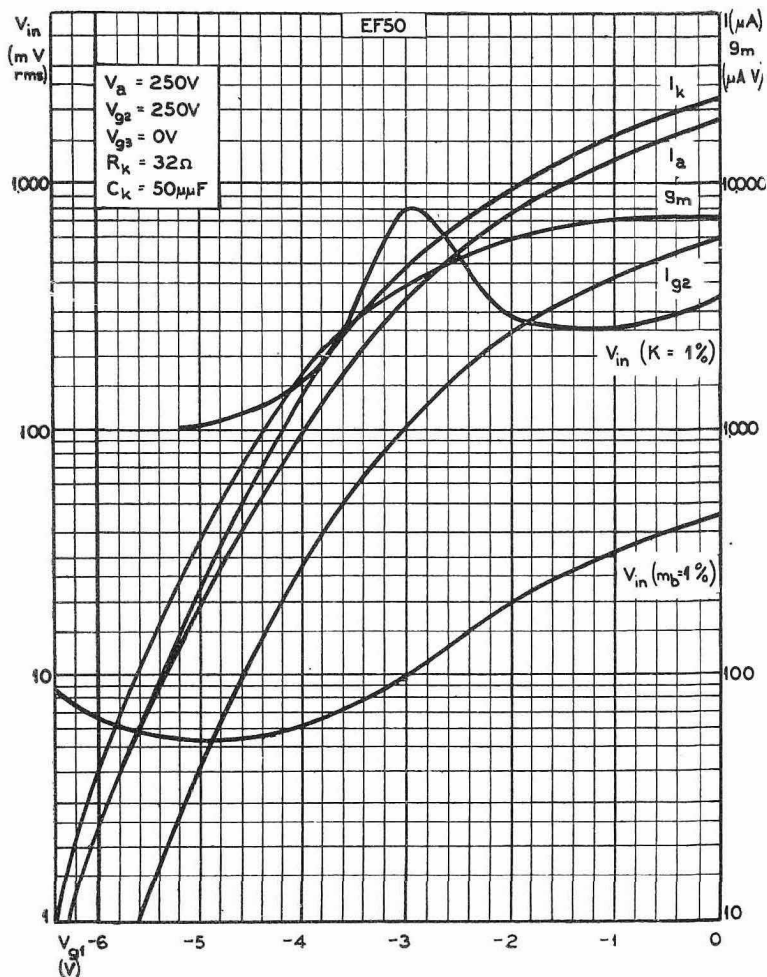


INPUT DAMPING AND INPUT CAPITANCE PLOTTED AGAINST SUPPRESSOR-GRID VOLTAGE AT 50 MC/S

EF50

R.F. PENTODE

Single-ended R.F. pentode, fully controlled by voltages of 0 to $-6V$ or 0 to $-55V$ according to the circuit used.



CONTROL CHARACTERISTICS WHEN CONTROLLED BY
CONTROL-GRID VOLTAGE