

R.F. PENTODE

EF80

High slope r.f. pentode primarily intended for r.f. or i.f. amplification in television receivers. It is suitable for use as a video amplifier, mixer or synchronising pulse separator.

HEATER

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

V_h	6.3	V
I_h	300	mA

CAPACITANCES

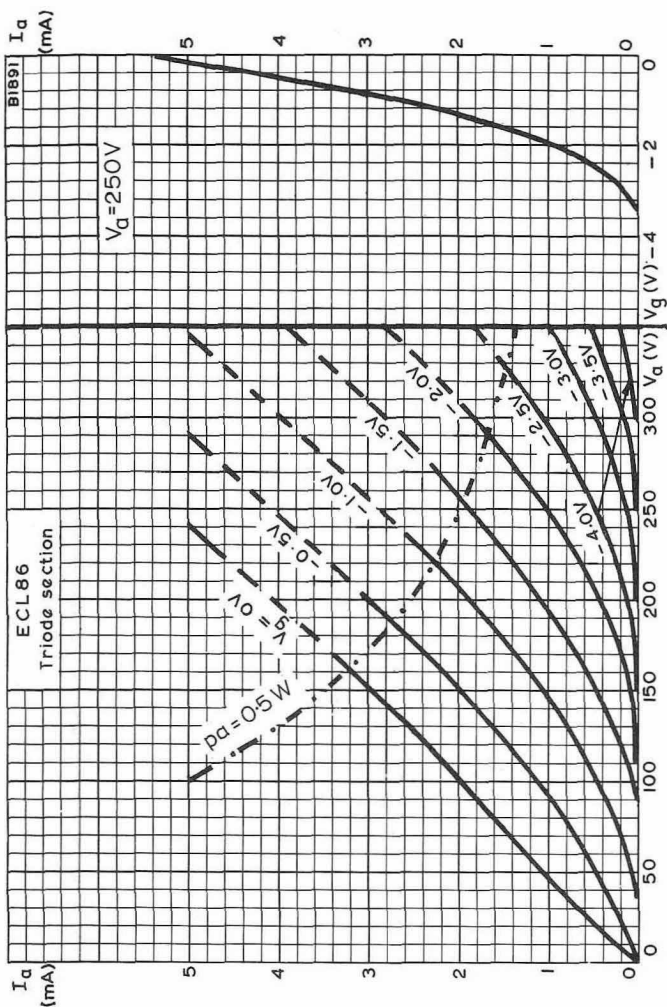
$C_{in(g1)}$	7.0	pF ←
$C_{in(g2)}$	5.4	pF
C_{out}	3.1	pF ←
C_{a-g1}	<7.0	mpF
C_{g2-g1}	2.6	pF
C_{a-k}	<10	mpF
C_{g1-h}	<150	mpF

CHARACTERISTICS

V_a	170	V
V_{g2}	170	V
V_{g3}	0	V
I_a	10	mA
I_{g2}	2.5	mA
V_{g1}	-2.0	V
g_{in}	7.4	mA/V
r_a	400	k Ω
μ_{g1-g2}	50	
R_{eq}	1.0	k Ω
r_{g1} ($f = 50\text{Mc/s}$)	10	k Ω
V_{g1} max. ($I_{g1} = +0.3\mu\text{A}$)	-1.3	V

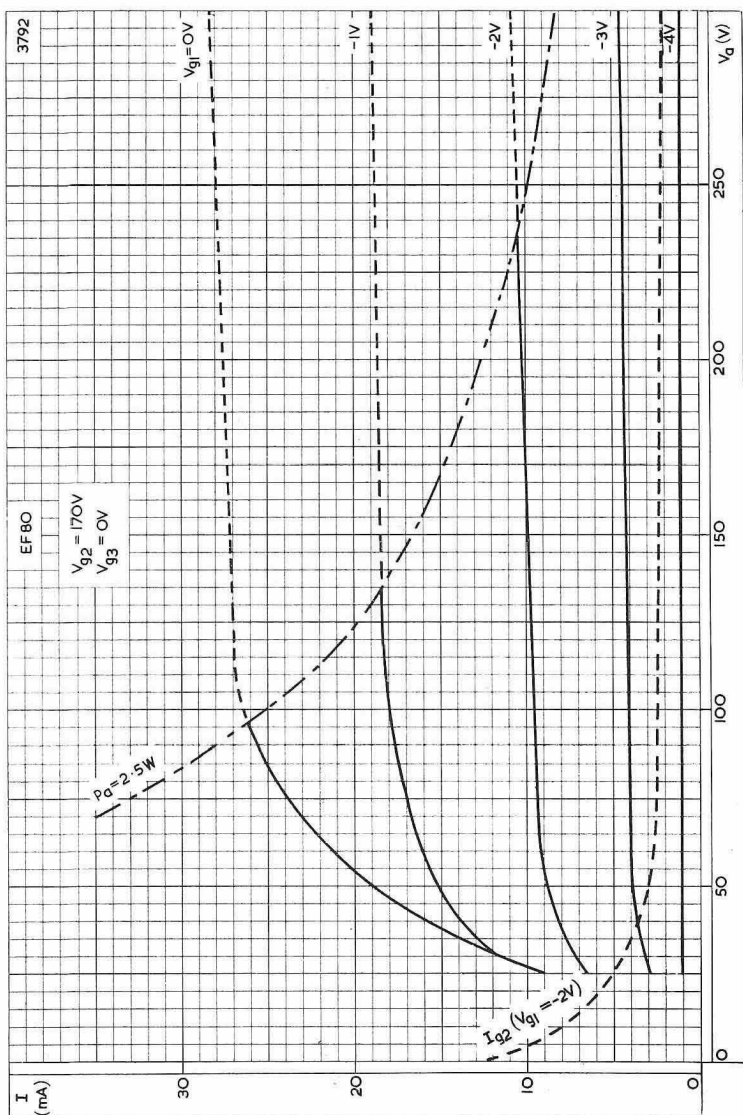
LIMITING VALUES

$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	2.5	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	300	V
p_{g2} max.	700	mW
I_k max.	15	mA
R_{g1-k} max.	500	k Ω
V_{h-k} max.	150	V
R_{h-k} max.	20	k Ω



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL GRID VOLTAGE AS PARAMETER.

ANODE CURRENT PLOTTED AGAINST CONTROL GRID VOLTAGE. $V_a = 250$ V
TRIODE SECTION

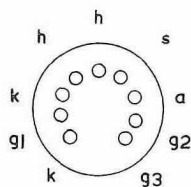
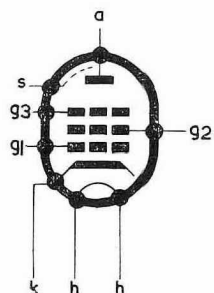


ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE, WITH SCREEN-GRID VOLTAGE AS PARAMETER. $V_{g2} = 170V$

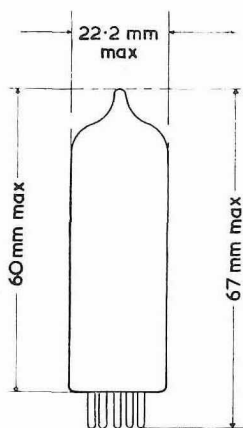
EF80

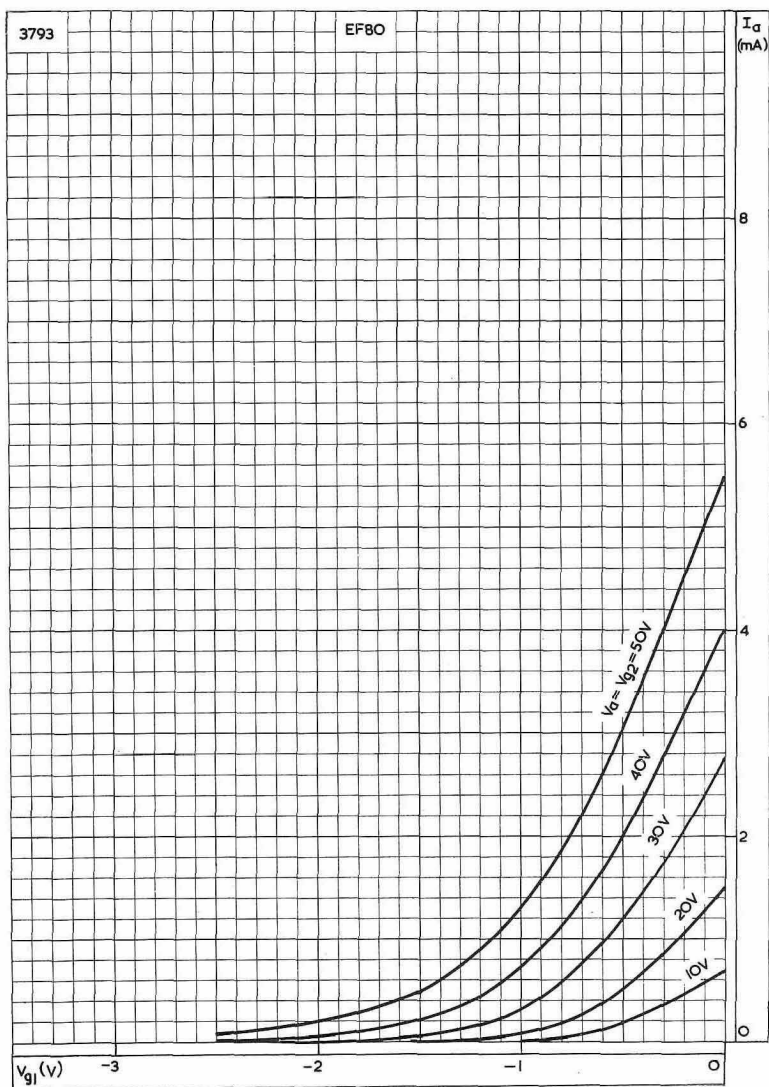
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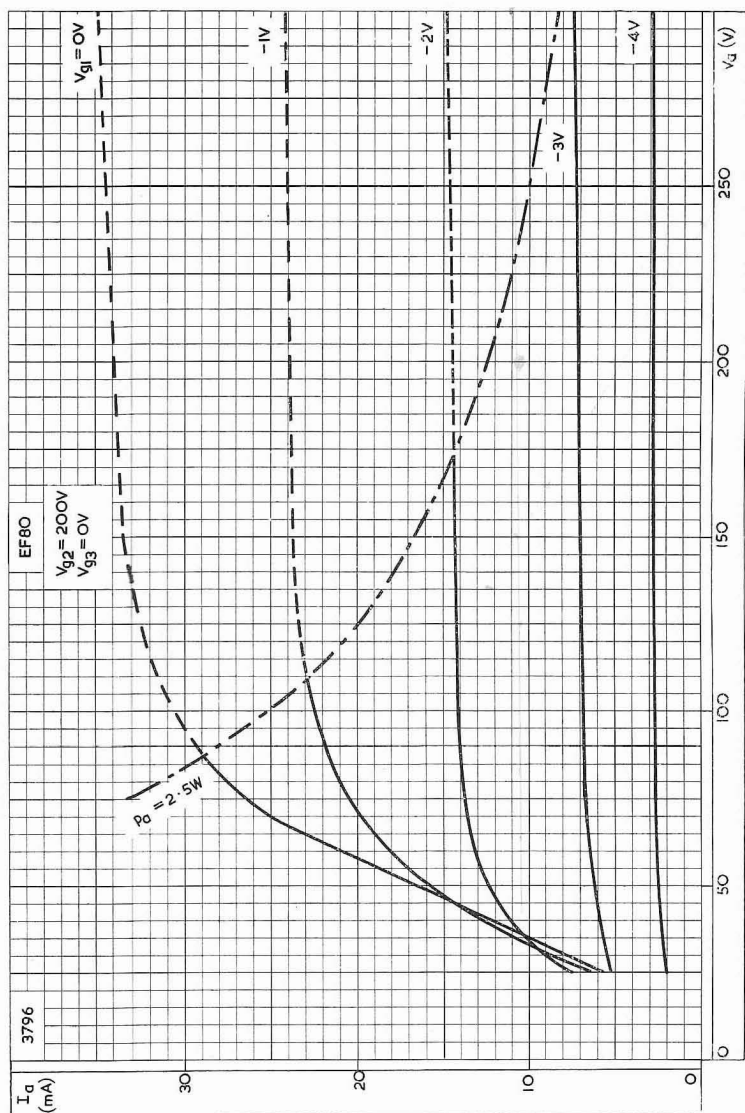


B9A Base

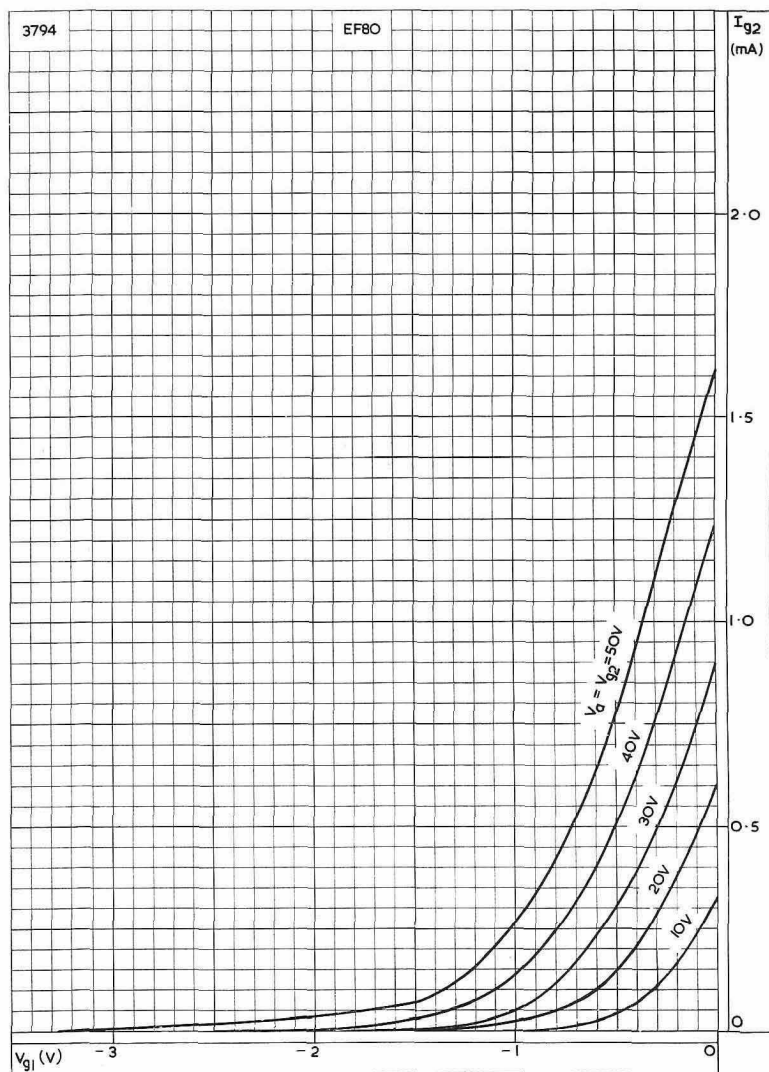




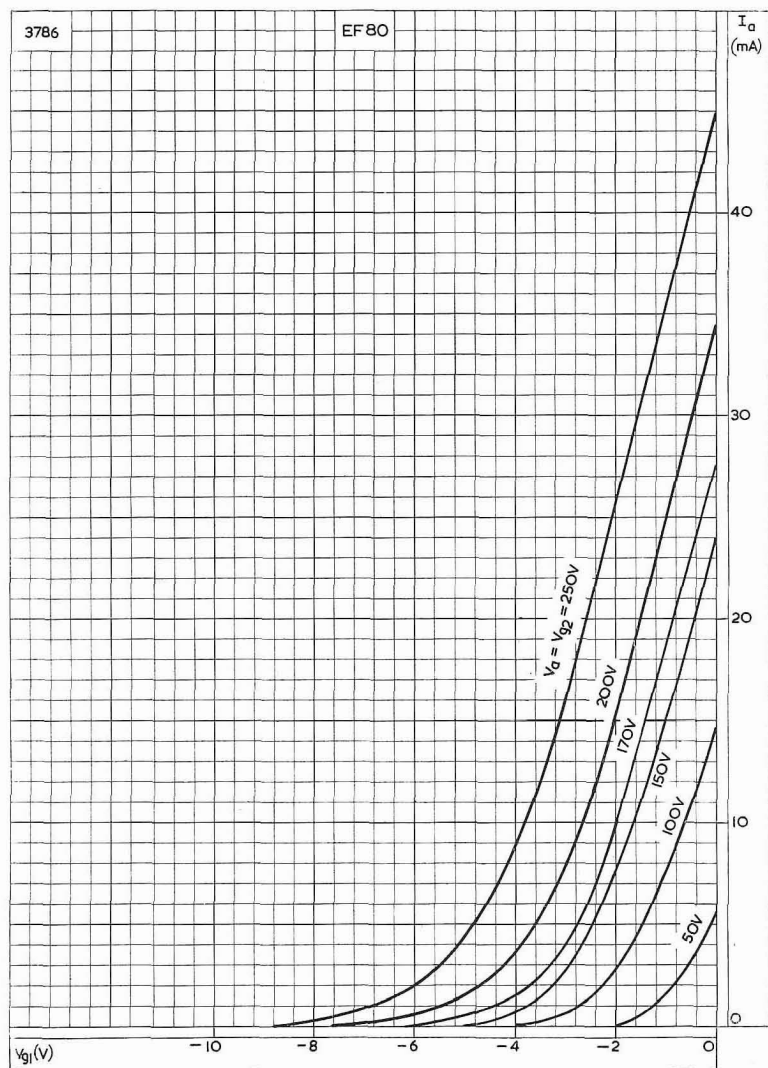
ANODE CURRENT IN THE REGION OF THE ORIGIN PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER



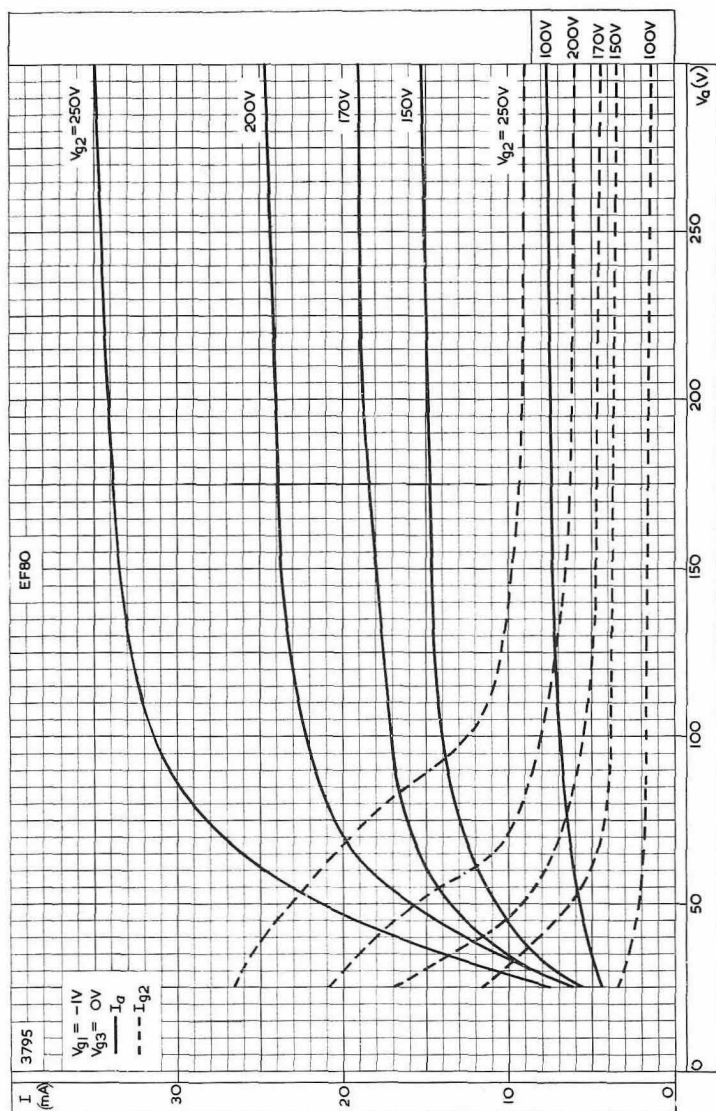
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 200V$



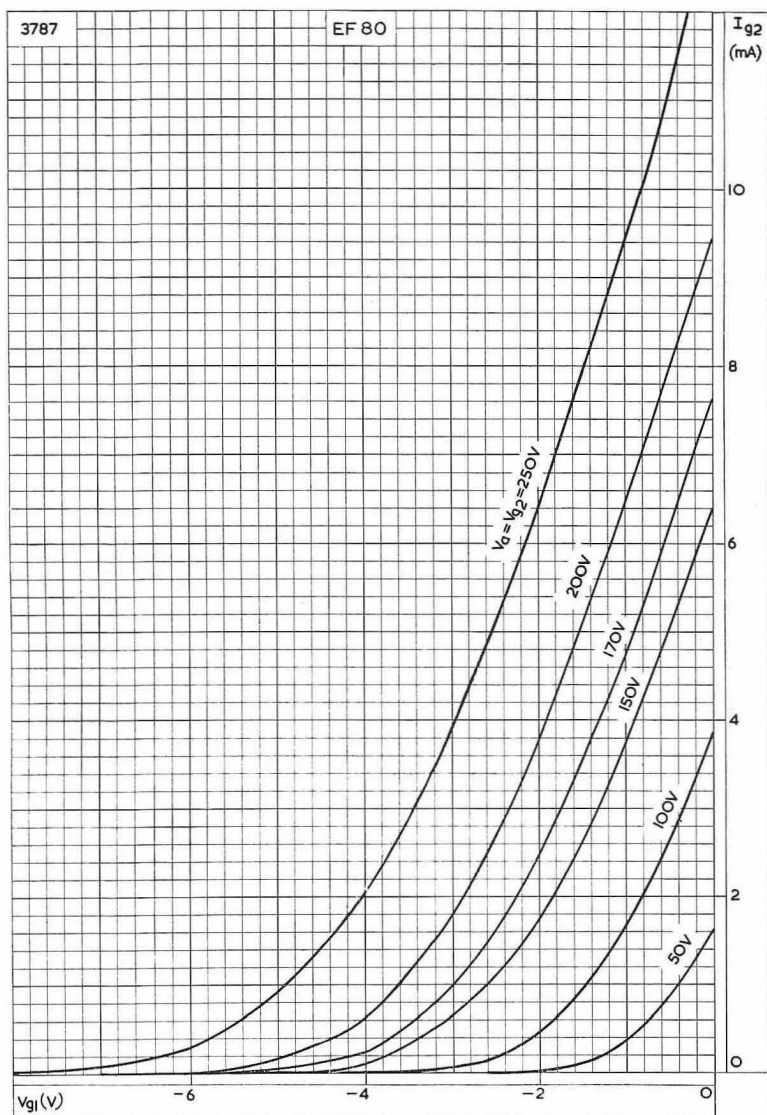
SCREEN-GRID CURRENT IN THE REGION OF THE ORIGIN PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER



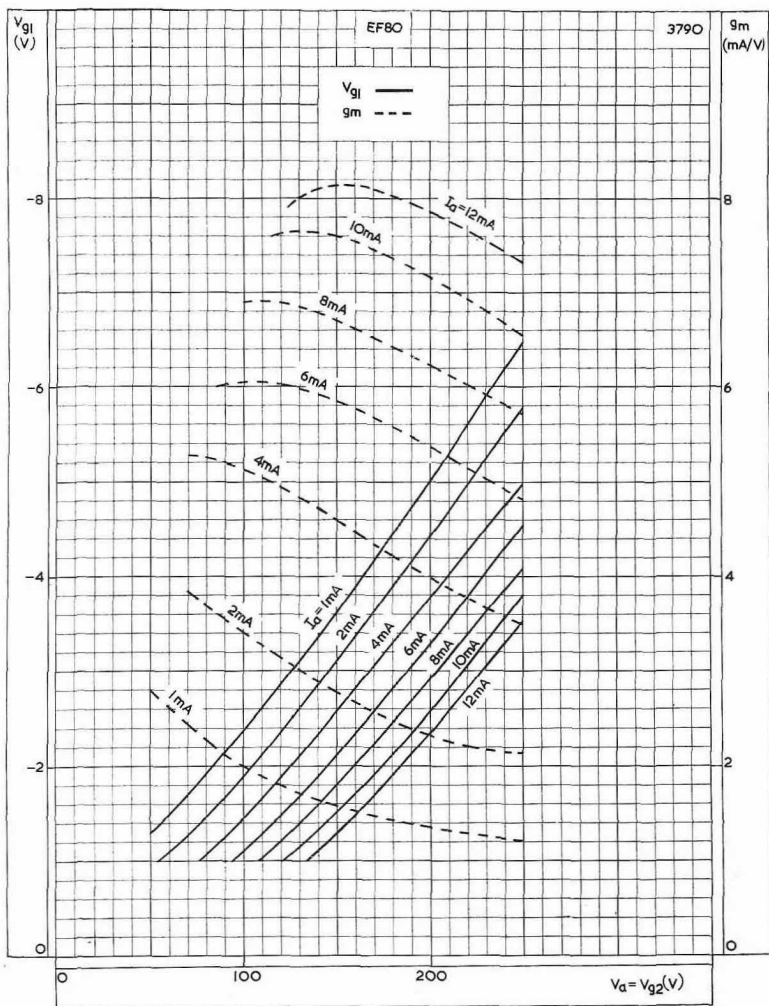
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER



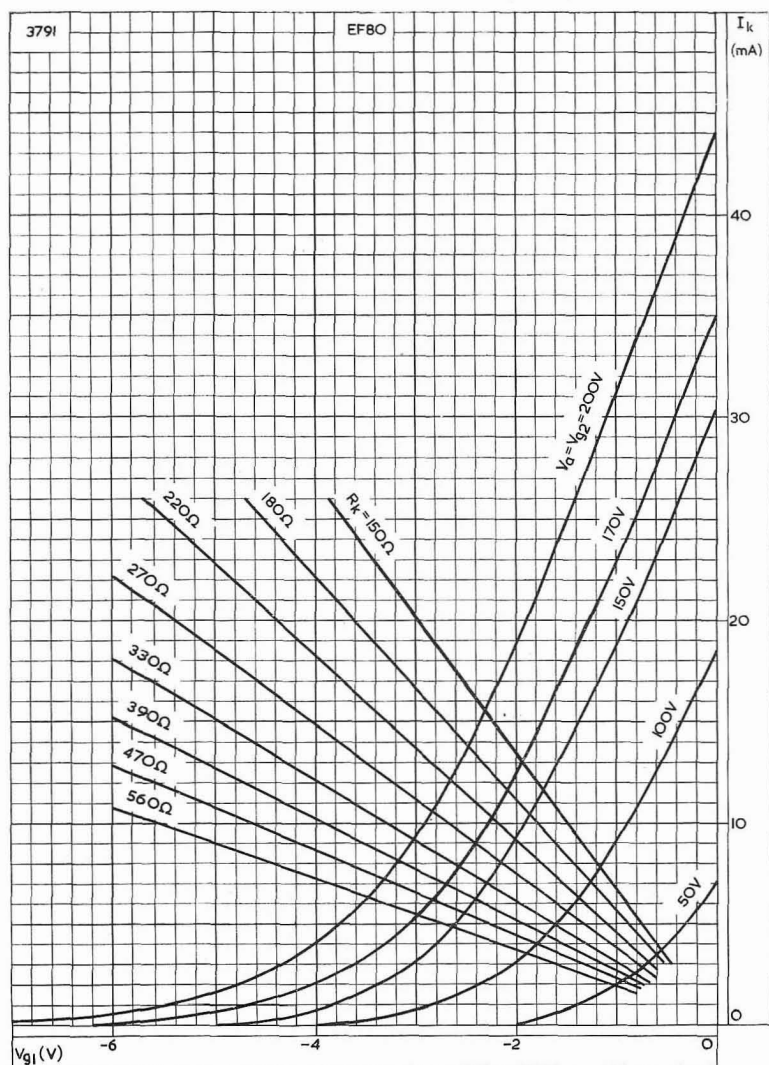
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH SCREEN-GRID VOLTAGE AS PARAMETER



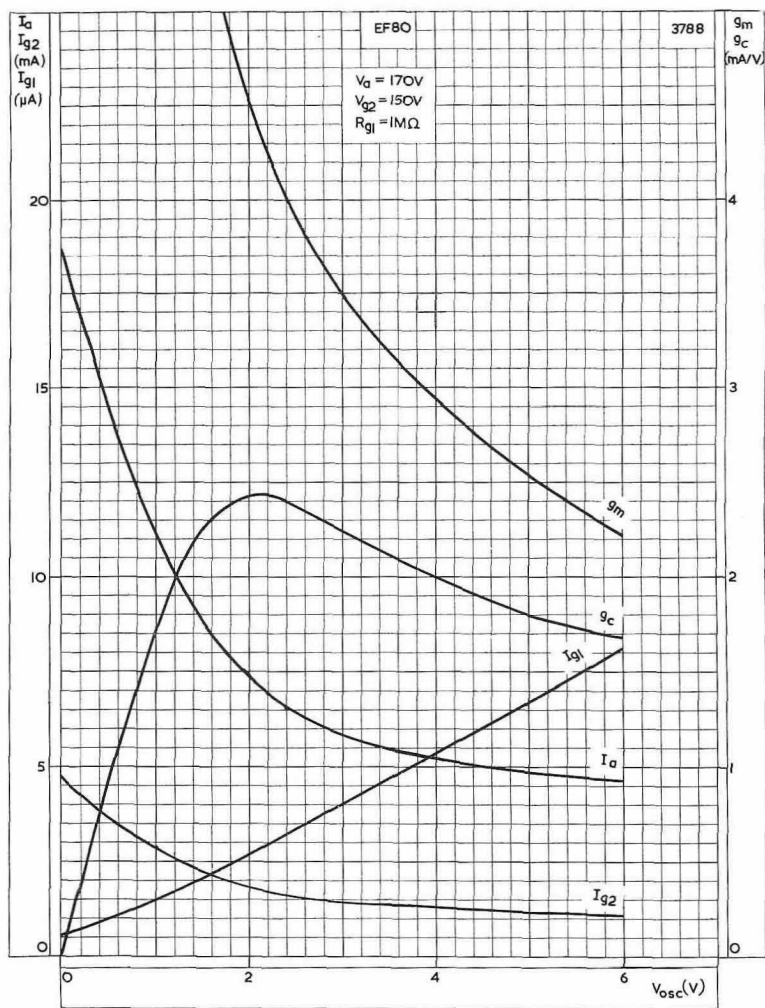
SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE
WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER



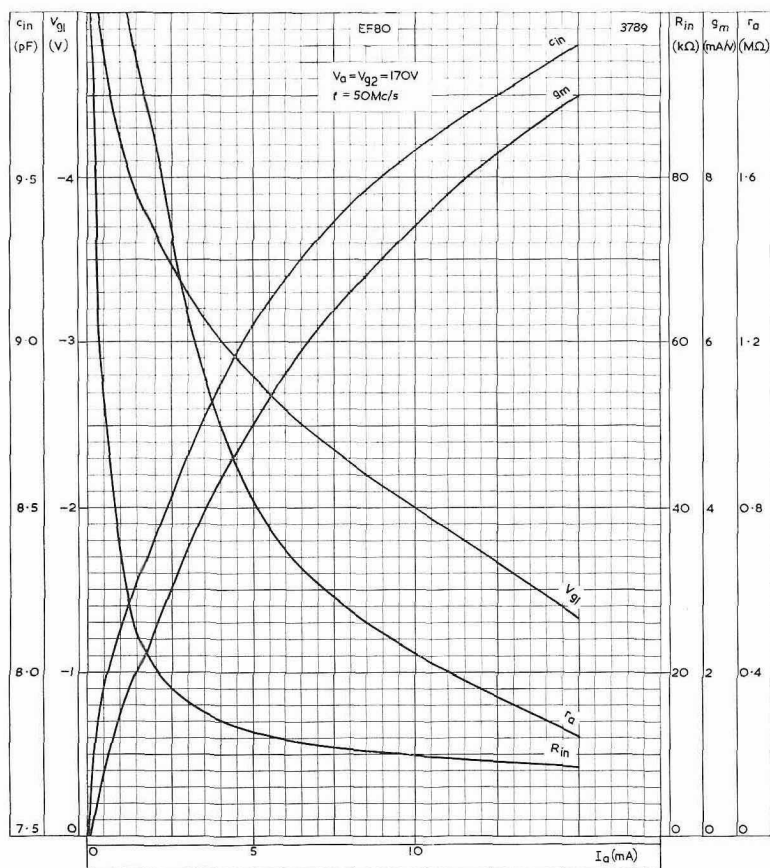
RELATION BETWEEN CONTROL-GRID VOLTAGE, MUTUAL CONDUCTANCE AND ANODE AND SCREEN-GRID VOLTAGES, WITH ANODE CURRENT AS PARAMETER



CATHODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE
WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER



PERFORMANCE CURVES AS FREQUENCY CHANGER. $V_{a1} = 170V$, $V_{g2} = 150V$



CONTROL-GRID VOLTAGE, MUTUAL CONDUCTANCE, ANODE IMPEDANCE, INPUT CAPACITANCE AND INPUT DAMPING PLOTTED AGAINST ANODE CURRENT