

Double pentode for video output plus sync, separator, a.g.c. amplifier or i.f. amplifier applications.

HEATER

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

I_h	300	mA
V_h	17	V ←

CAPACITANCES (unshielded)

$C_{a'-a''}$	<150	mpF
$C_{g1'-g1''}$	<10	mpF
$C_{a'-g1''}$	<100	mpF
$C_{a''-g1'}$	<5.0	mpF

L Section

$C_{in'}$	12.5	pF
$C_{out'}$	6.5	pF
$C_{a'-g1'}$	100	mpF

F Section

$C_{in''}$	10.5	pF
$C_{a''-g2''+k''g3''+h+k'g3',s}$	10.5	pF
$C_{a''-g1''}$	150	mpF
$C_{g1''-h}$	<150	mpF

CHARACTERISTICS

	Amplifier section		Output section	
V_a	150	50	170	V
V_{g2}	150	75	170	V
I_a	10	5.0	30	mA
I_{g2}	3.0	1.6	7.0	mA
V_{g1}	-2.1	-0.65	-2.7	V
g_m	8.5	6.8	22	mA/V
μ_{g1-g2}	38	34	38	
r_a	150	110	33	kΩ

RATINGS (DESIGN CENTRE SYSTEM)

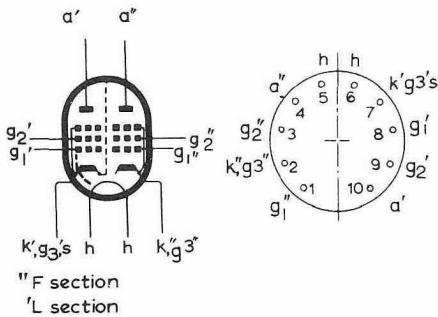
Output section

V_a max.	250	V
V_{g2} max.	250	V
p_a max.	5.0	W
p_{g2} max.	2.5	W
p_{g2} max. (intermittent rating, short duration)	3.2	W
I_k max.	60	mA
I_k max. (intermittent rating, short duration)	85	mA
R_{g1-k} max.	1.0	MΩ
V_{h-k} max.	200	V

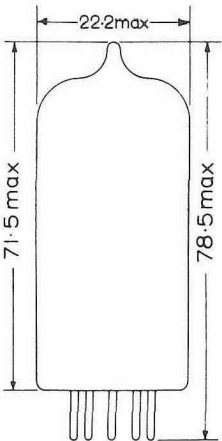
Amplifier section

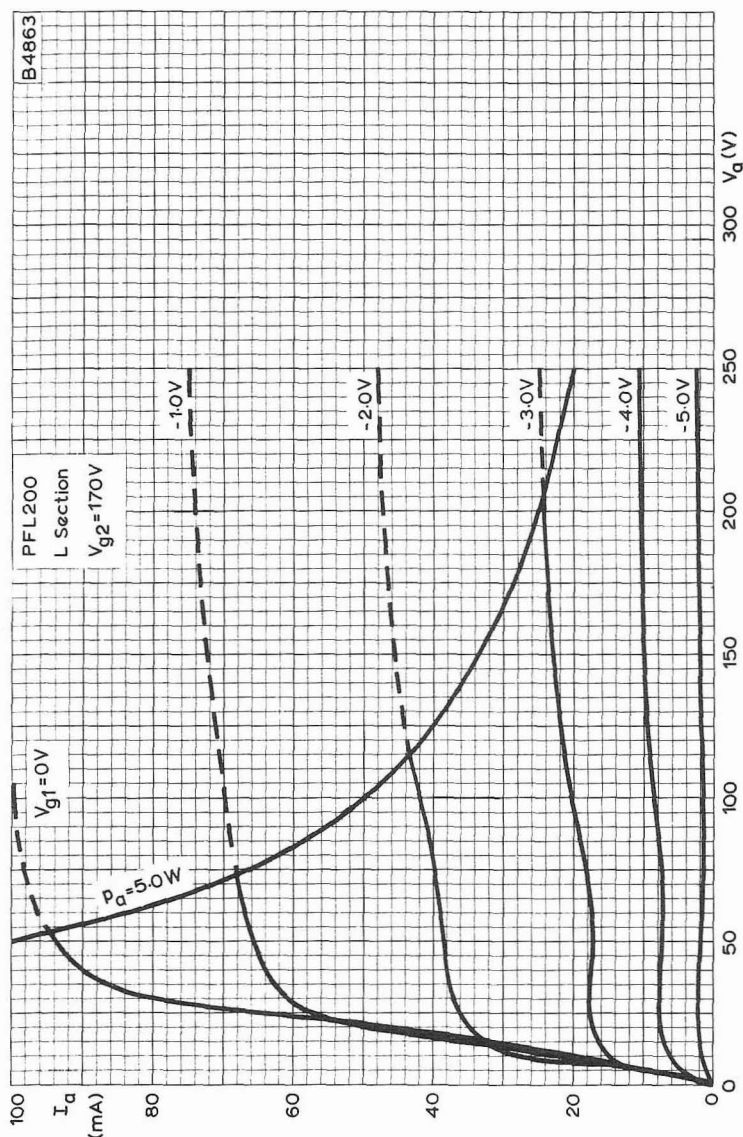
$V_{a(b)}$ max.	550	V
$V_{g2(b)}$ max.	550	V
V_a max.	250	V
V_{g2} max.	250	V
p_a max.	1.5	W
p_{g2} max.	0.5	W
I_k max.	15	mA
R_{g1-k} max.	1.0	MΩ
V_{h-k} max.	200	V

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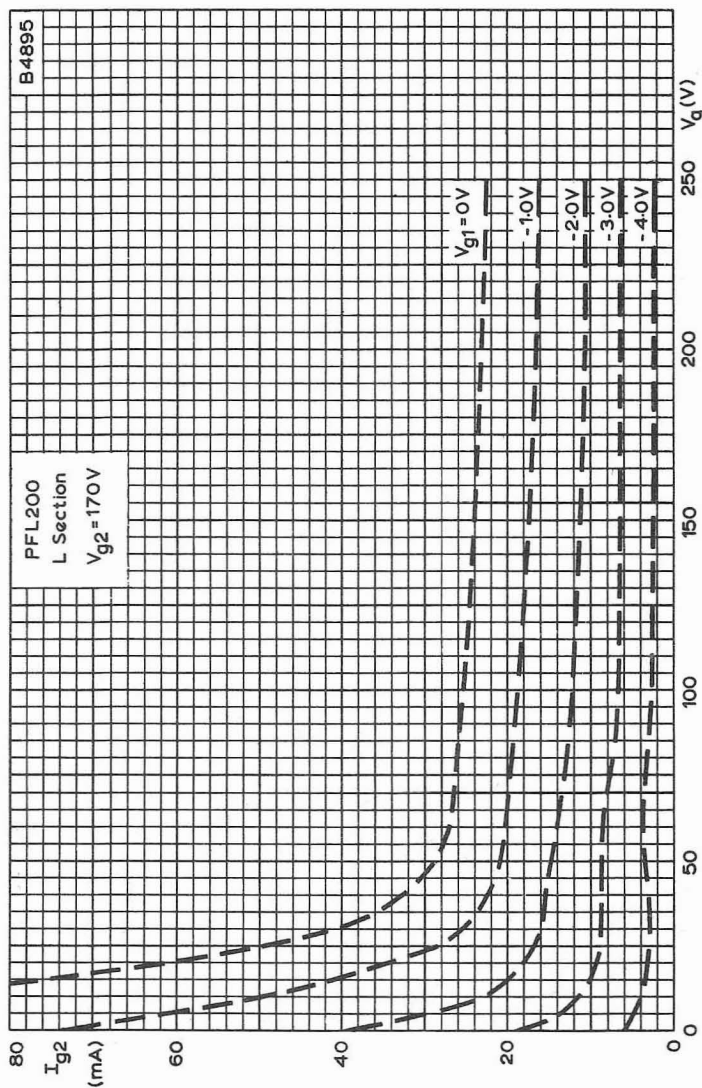


BIOB base

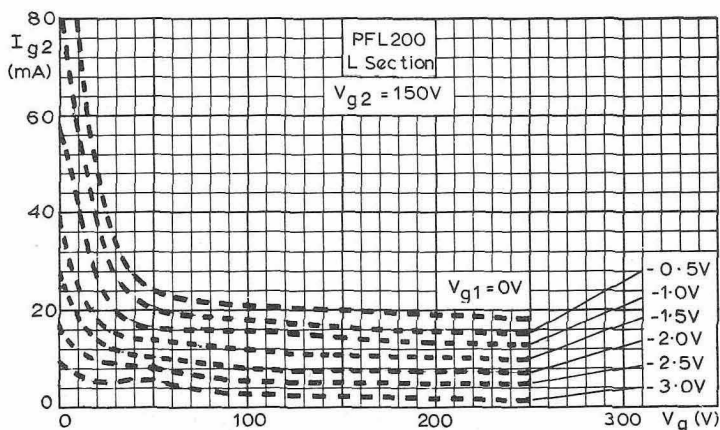
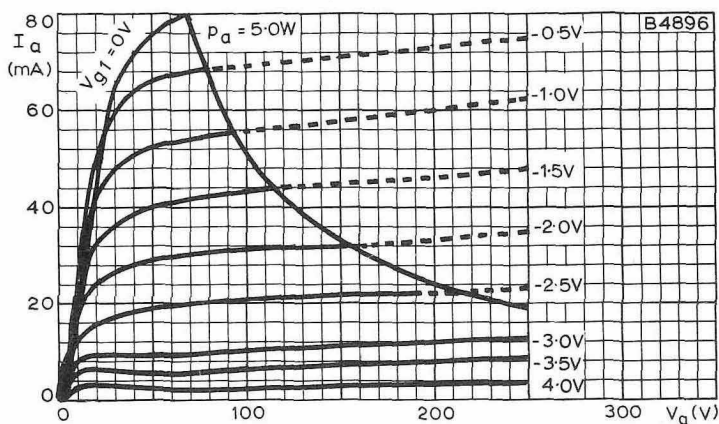




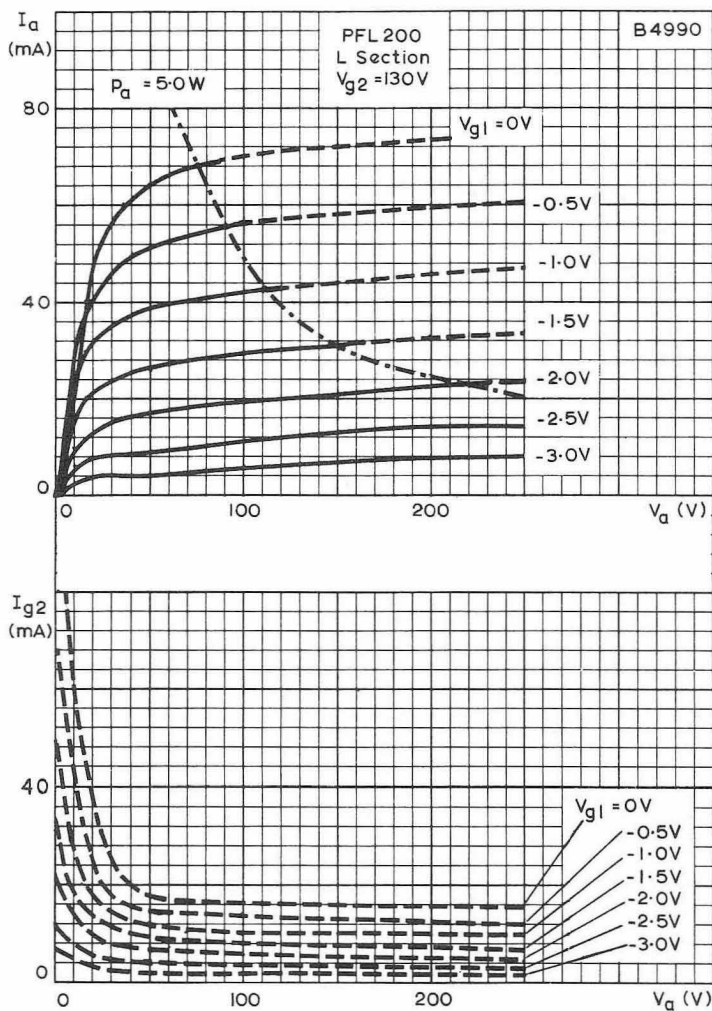
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 170V$.
L SECTION



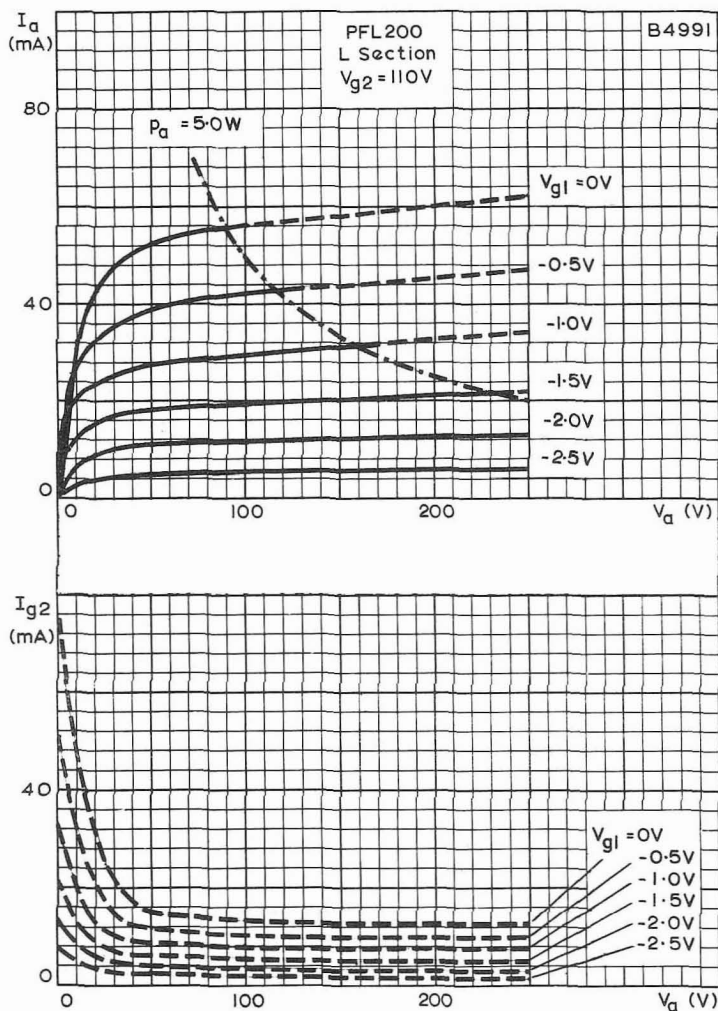
SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE, WITH
 CONTROL-GRID VOLTAGE AS PARAMETER, $V_{g2} = 170V$.
 L SECTION



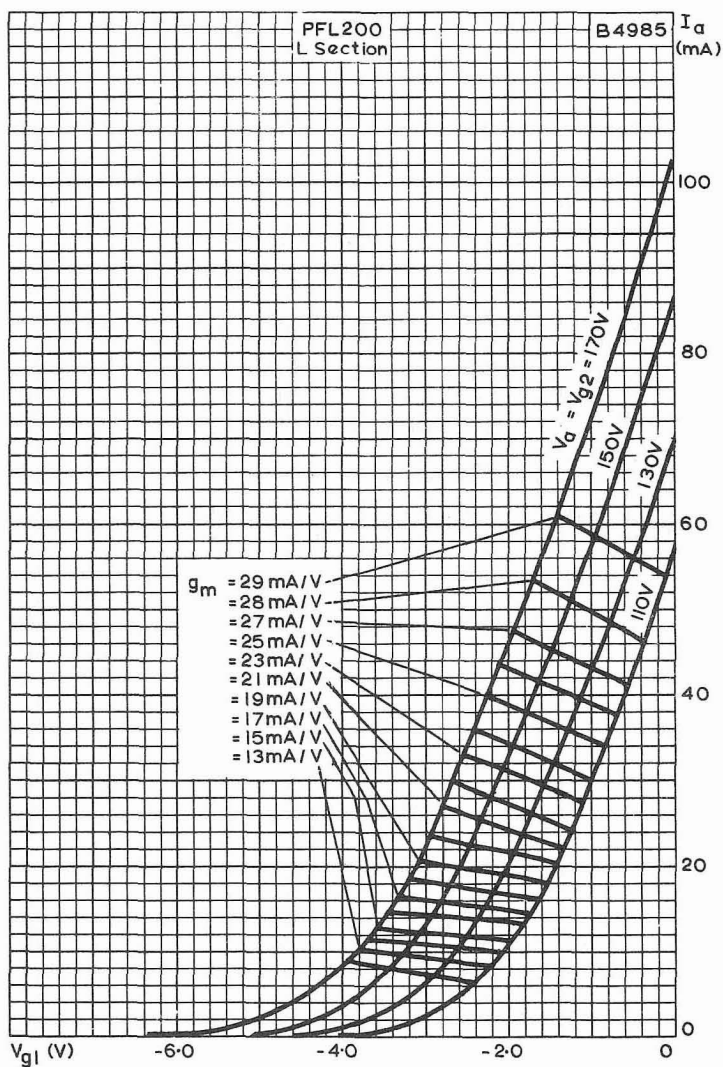
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 150V$.
L SECTION



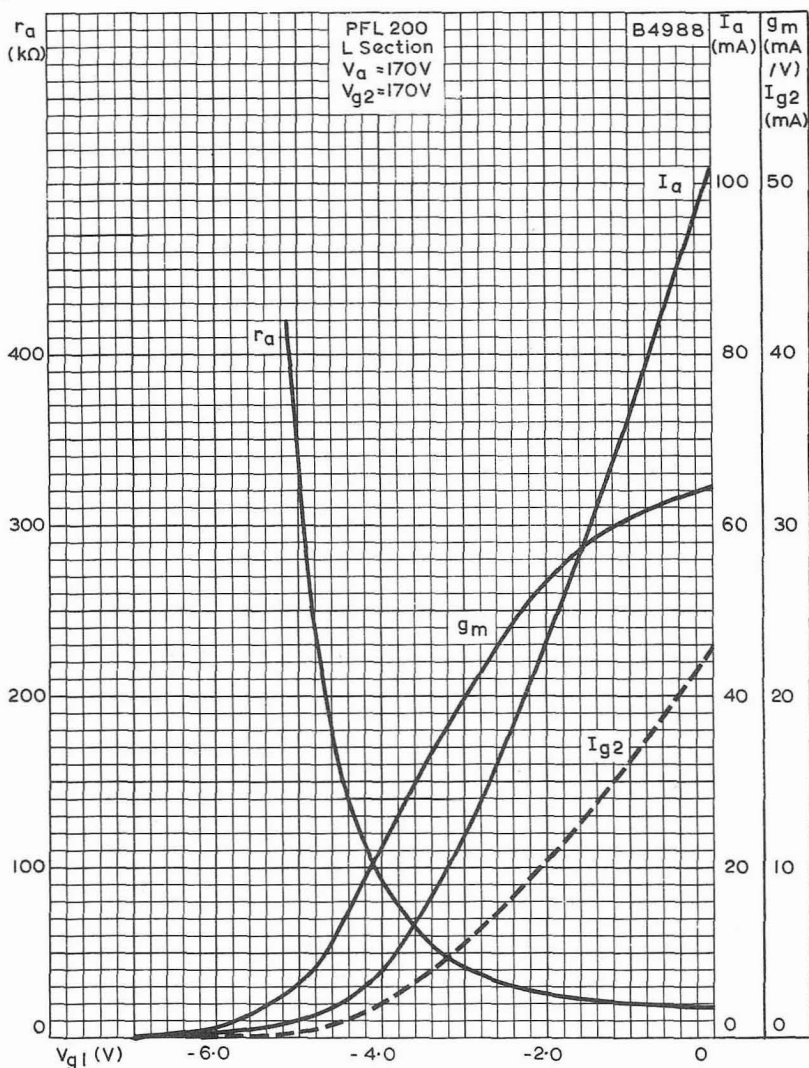
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 130V$.
L SECTION



ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 110V$.
L SECTION



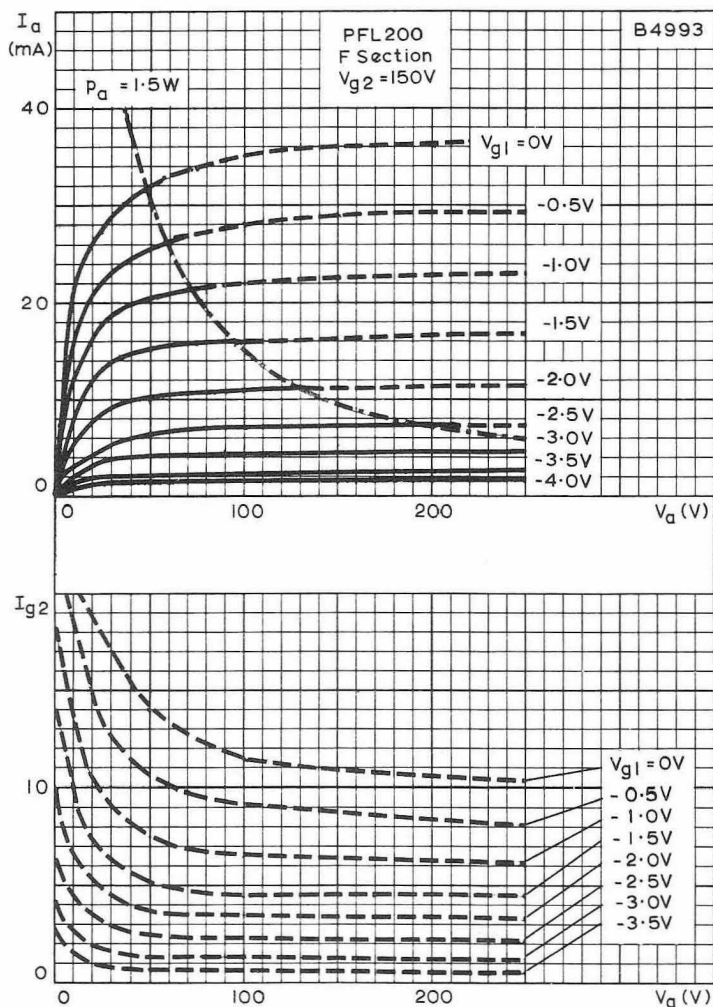
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH
ANODE AND SCREEN-GRID VOLTAGES AS PARAMETERS AND WITH
MUTUAL CONDUCTANCE CONTOURS.
L SECTION



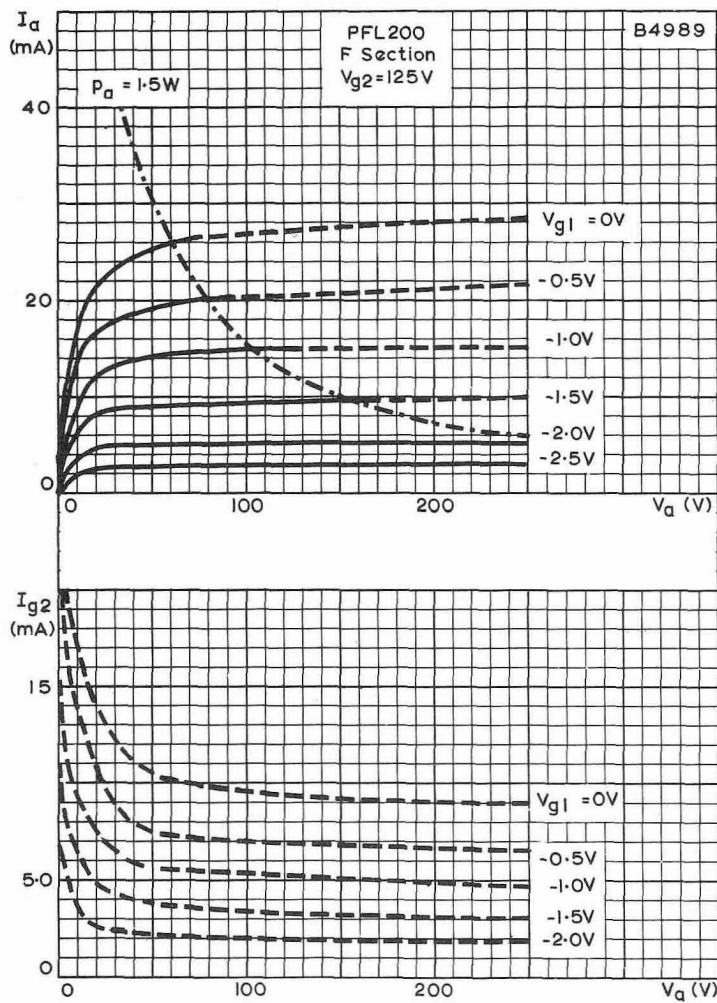
ANODE AND SCREEN-GRID CURRENTS, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE.

$$V_a = V_{g2} = 170V.$$

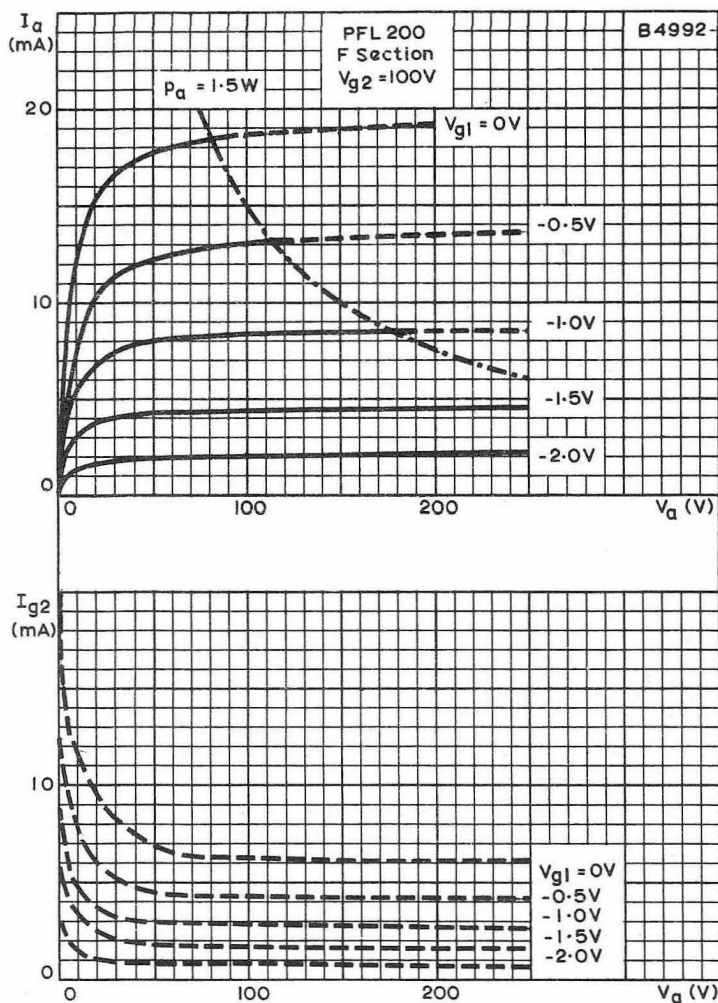
L SECTION



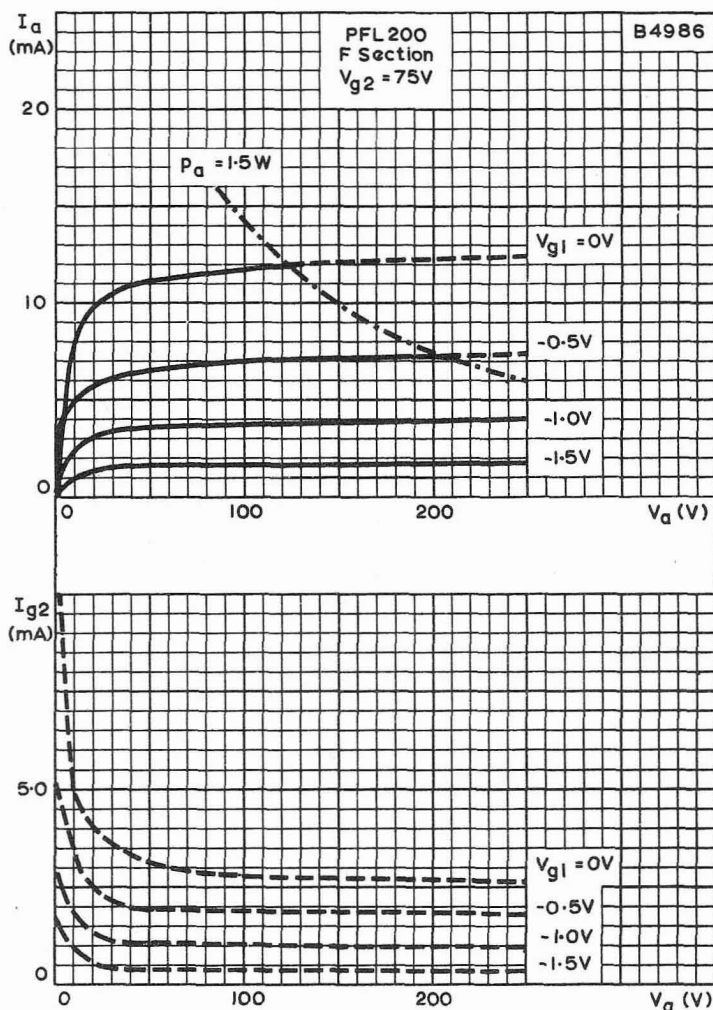
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 150V$.
F SECTION



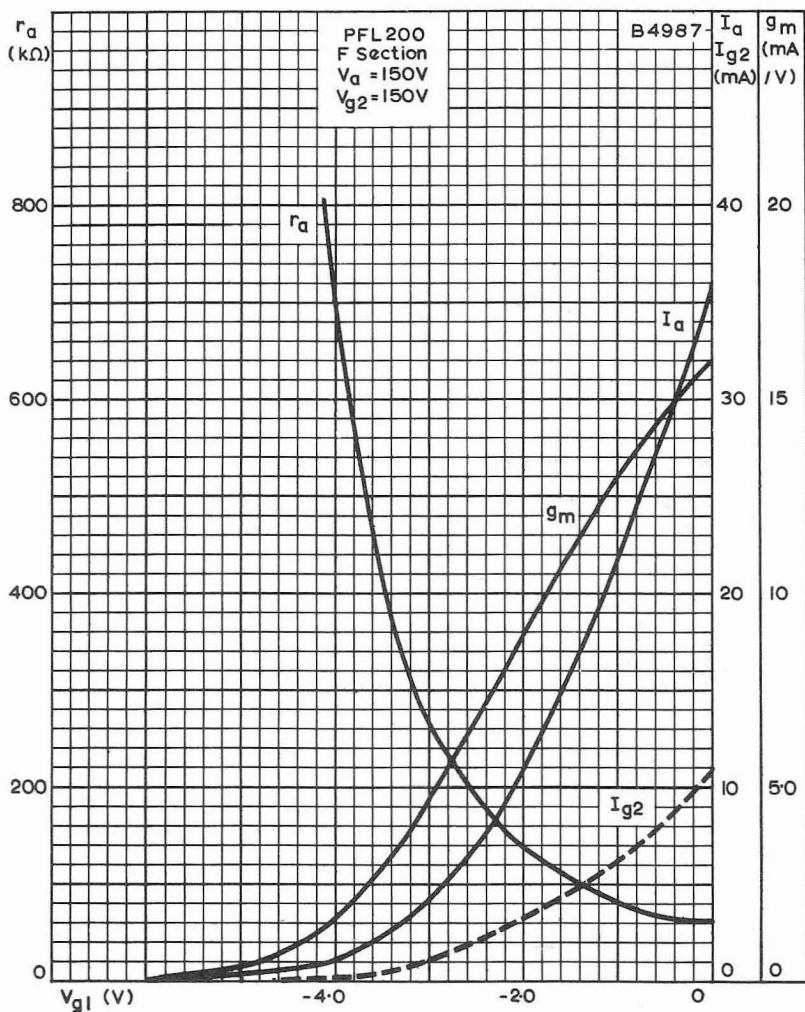
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 125V$.
F SECTION



ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER, $V_{g2} = 100V$.
F SECTION



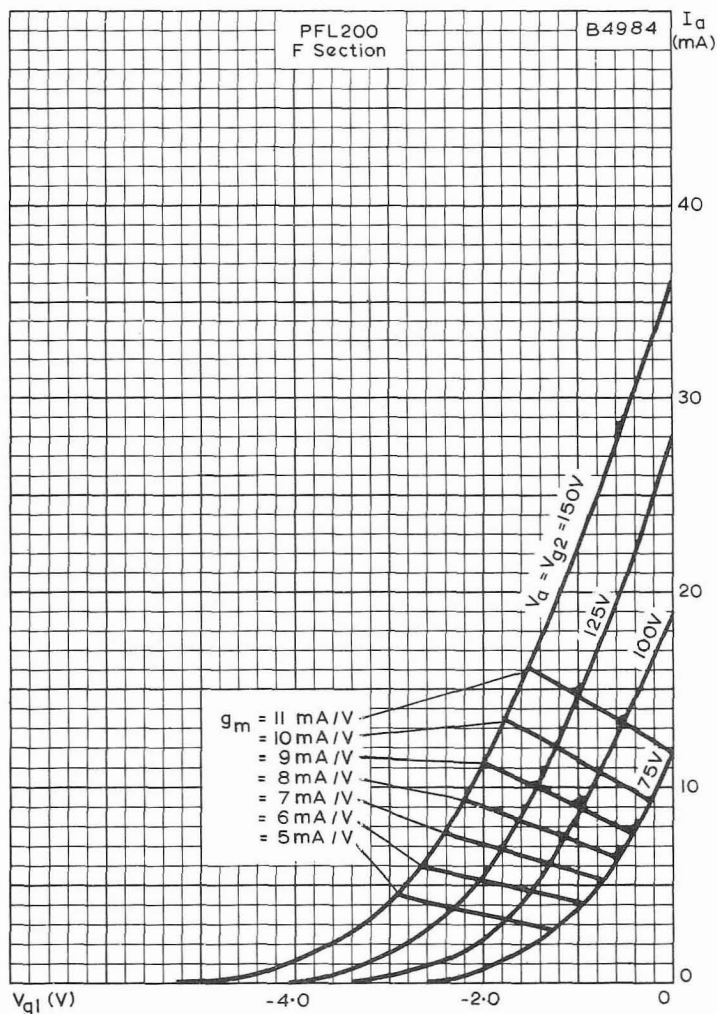
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 75V$.
F SECTION



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

$$V_a = V_{g2} = 150V.$$

F SECTION



ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH
ANODE AND SCREEN-GRID VOLTAGES AS PARAMETERS AND WITH
MUTUAL CONDUCTANCE CONTOURS.
F SECTION

