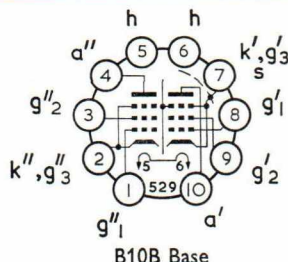


DOUBLE PENTODE



GENERAL

This double pentode, is intended for use in television receivers with the 'L' section as a high gain video output stage and the 'F' section as a sync separator, A.G.C. amplifier or I.F. amplifier. Particular care has been taken in the design of the valve to reduce coupling between sections to a minimum. The 'L' section is on pins 7, 8, 9 and 10.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	17	V

RATINGS

	Output 'L' Section'	Amplifier 'F' Section"	
Maximum Anode Dissipation	$P_{a(max)}$	5.0	1.5 W
Maximum Screen Grid Dissipation	$P_{g2(max)}$	2.5	0.5 W
Intermittent rating, short duration		3.2	W
Maximum Anode Supply Voltage	$V_{a(b)max}$	—	550 V
Maximum Anode Voltage	$V_{a(max)}$	250	250 V
Maximum Screen Grid Supply Voltage	$V_{g2(b)max}$	—	550 V
Maximum Screen Grid Voltage	$V_{g2(max)}$	250	250 V
Maximum Heater to Cathode Voltage	$V_{h-k(max)}$	200	200 V
Maximum Cathode Current	$I_{k(max)}$	60	15 mA
Intermittent rating, short duration		85	mA
Maximum Grid 1 to Cathode Resistance	$R_{g1-k(max)}$	1.0	1.0 MΩ

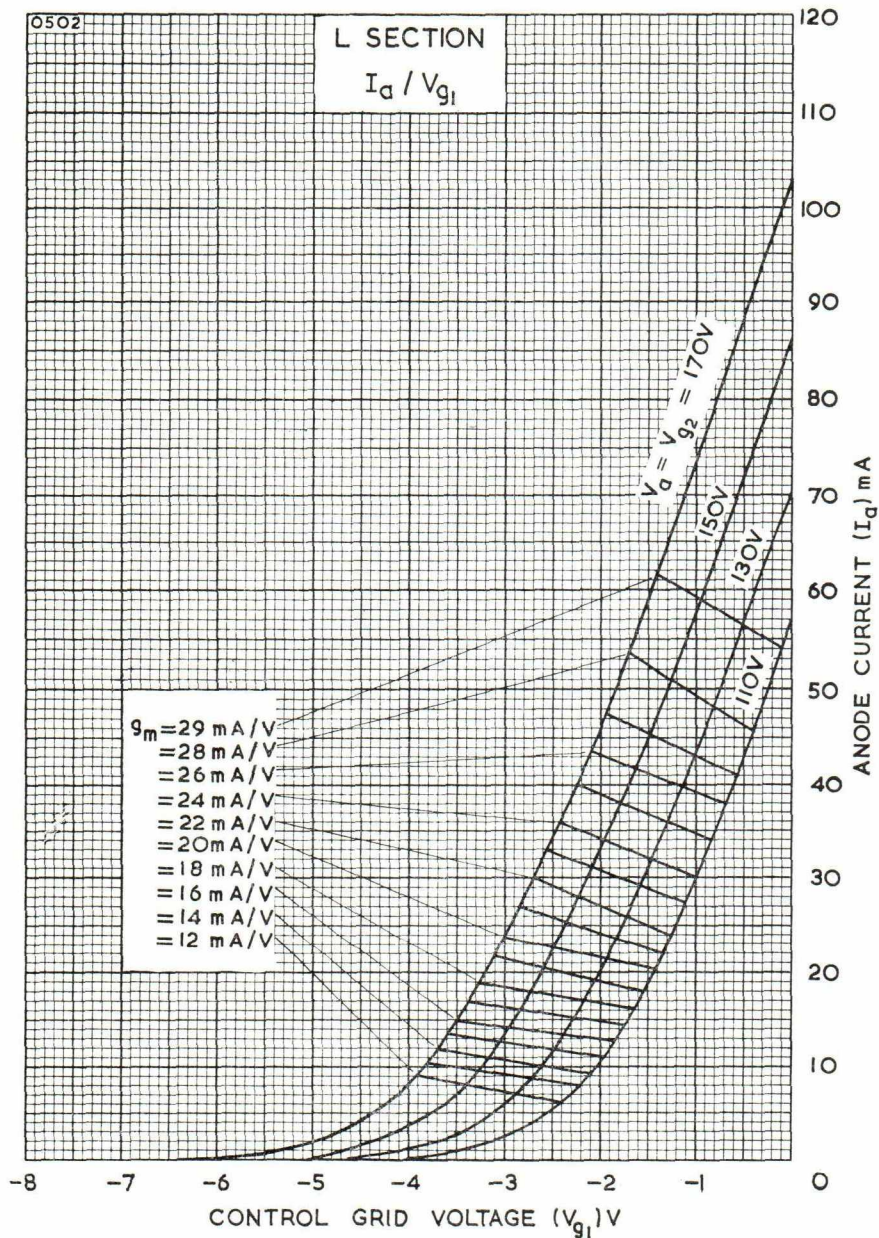
INTER-ELECTRODE CAPACITANCES*

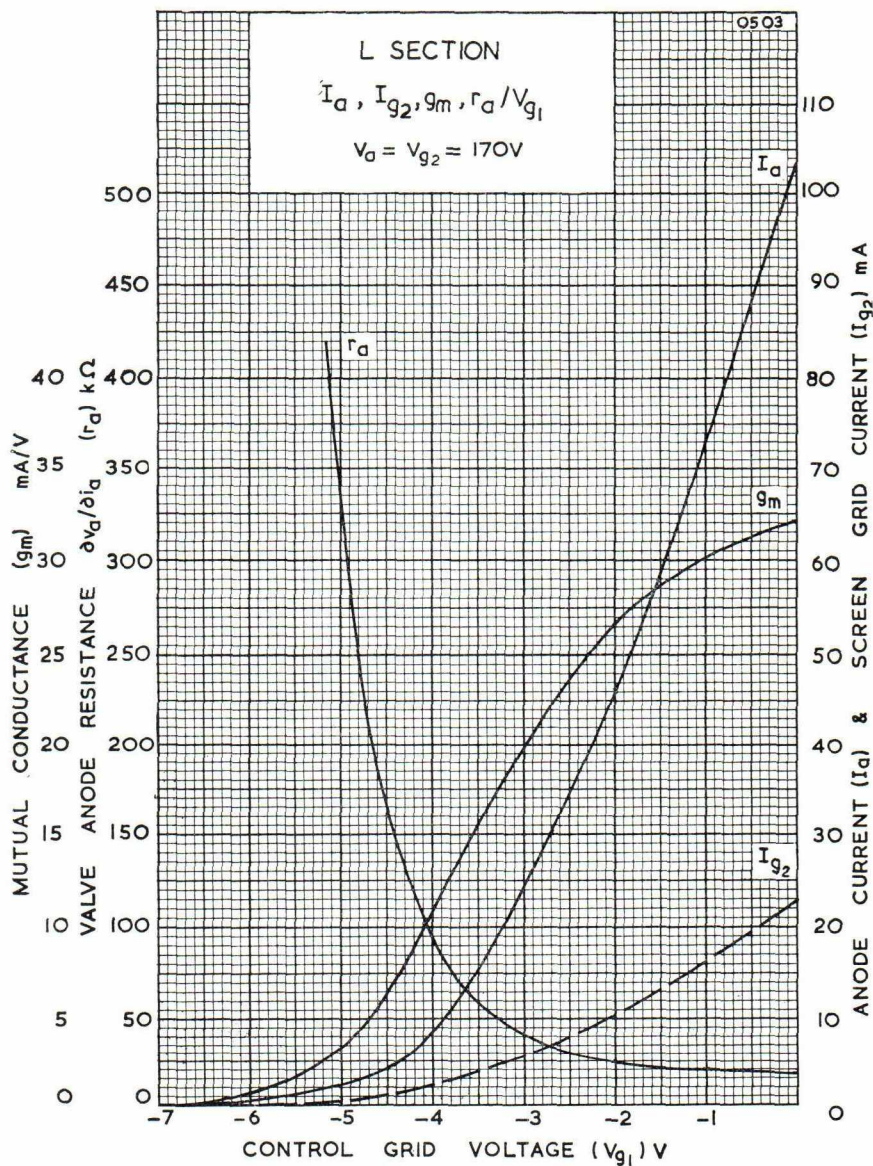
	Output 'L' Section'	Amplifier 'F' Section"	
Input	C_{in}	12.5	pF
Output	C_{out}	6.5	10.5 pF
Anode to Grid 1	C_{a-g1}	0.1	0.15 pF
Anode' to Anode"	$C_{a'-a''}$		<0.15 pF
Grid'1 to Grid"1	$C_{g'1-g''1}$		<0.01 pF
Anode' to Grid"1	$C_{a'-g''1}$		<0.10 pF
Grid'1 to Anode"	$C_{g'1-a''}$		<0.005 pF
Grid"1 to Heater	$C_{g''1-h}$		<0.15 pF

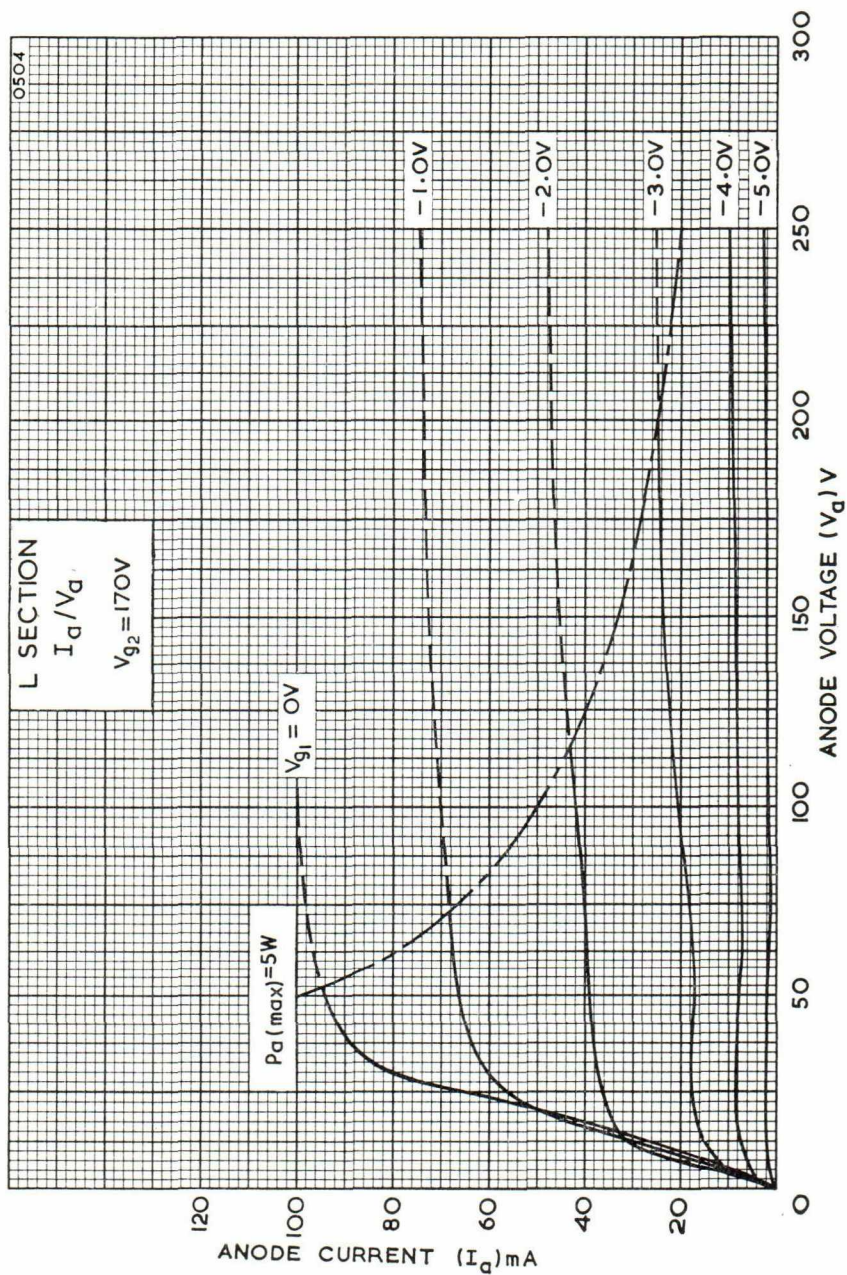
* Measured without an external shield.

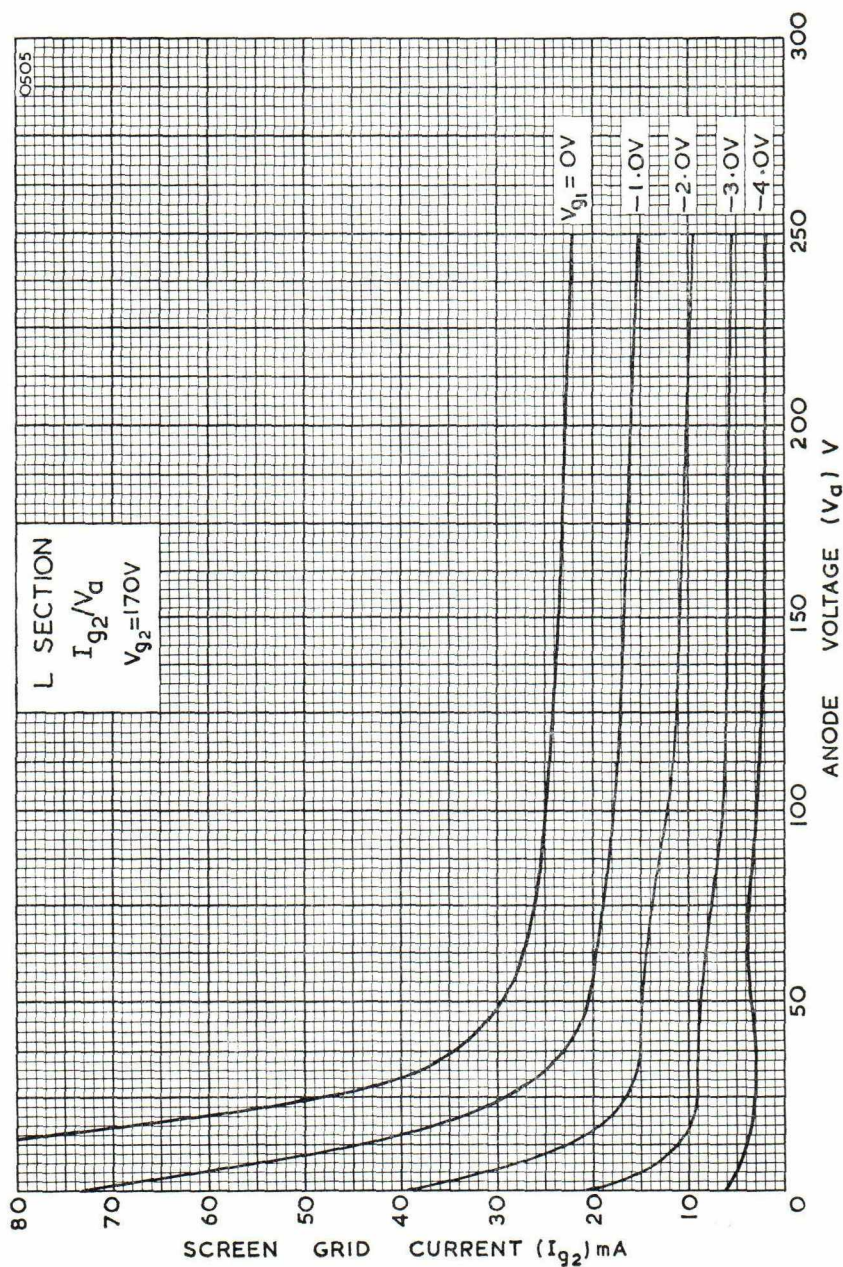
CHARACTERISTICS

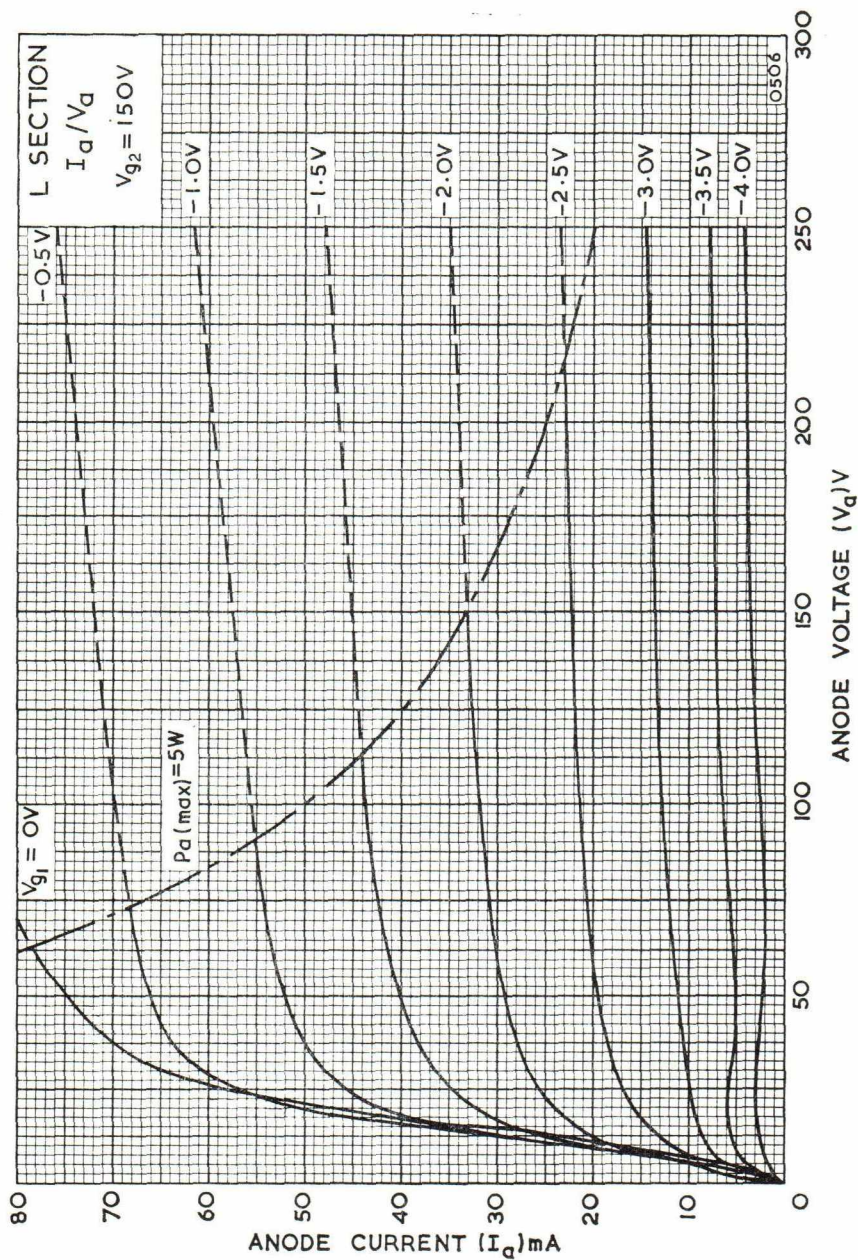
	Output 'L' Section'	Amplifier 'F' Section"	
Anode Voltage	V_a	170	150 50 V
Screen Grid Voltage	V_{g2}	170	150 75 V
Control Grid Voltage	V_{g1}	-2.7	-2.1 -0.65 V
Anode Current	I_a	30	10 5.0 mA
Screen Grid Current	I_{g2}	7.0	3.0 1.6 mA
Mutual Conductance	g_m	22	8.5 6.8 mA/V
Inner Amplification Factor	μ_{g1-g2}	38	38 34
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	33	150 110 kΩ

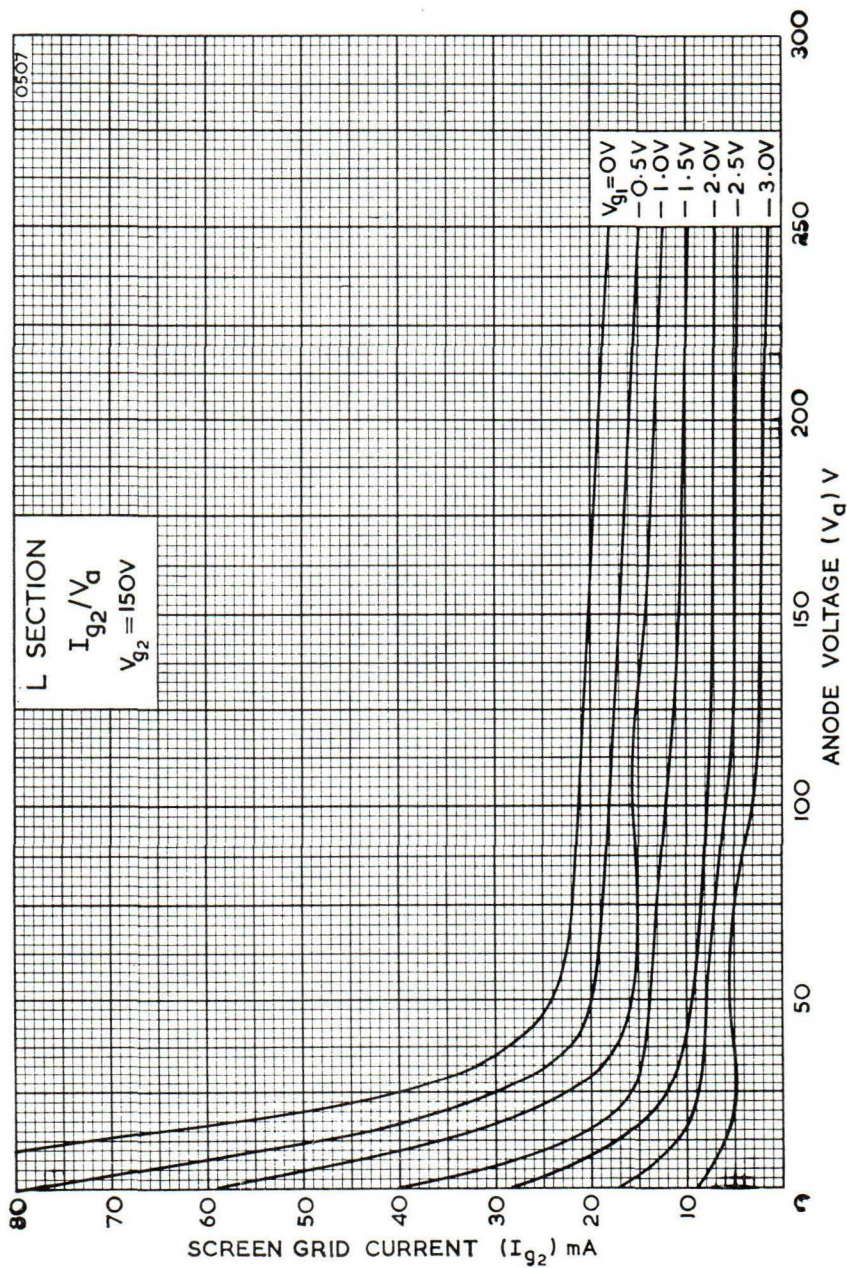


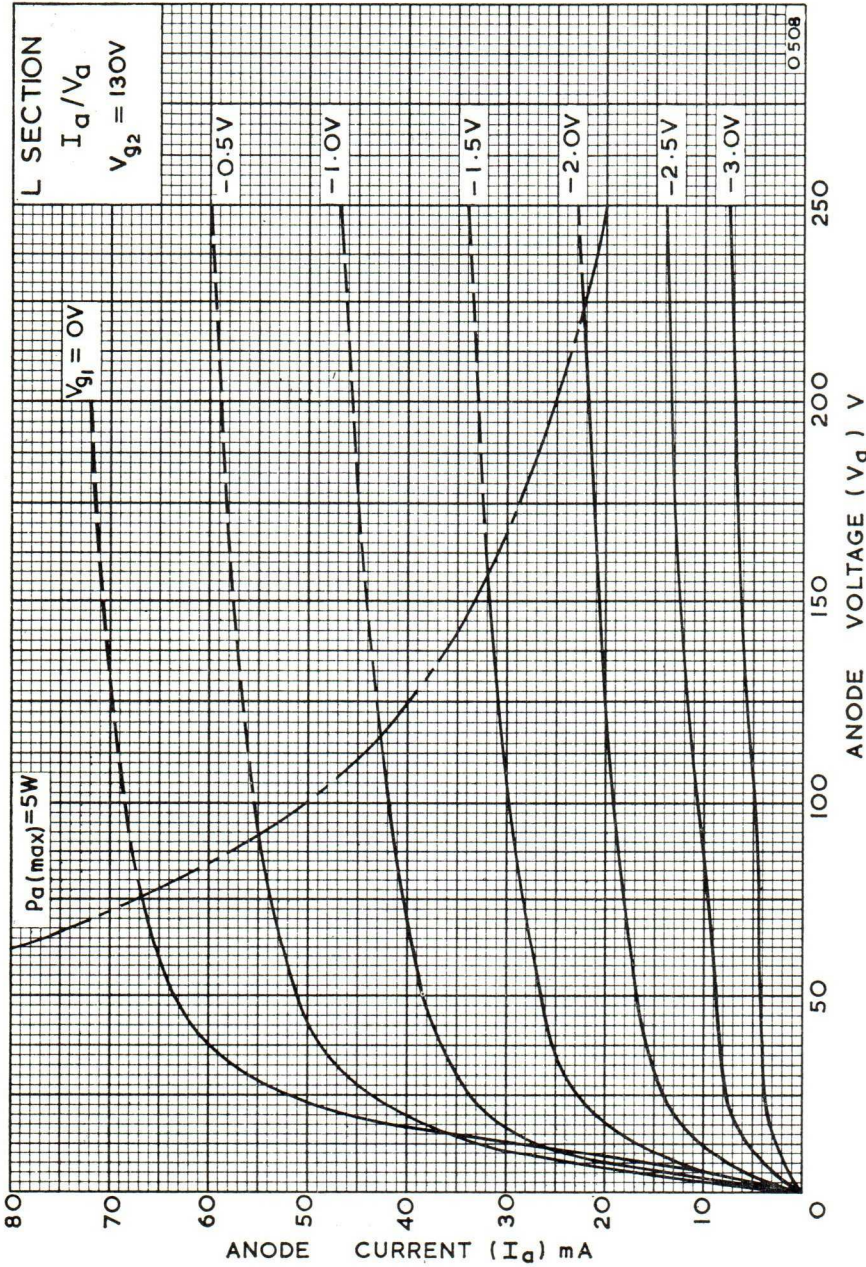


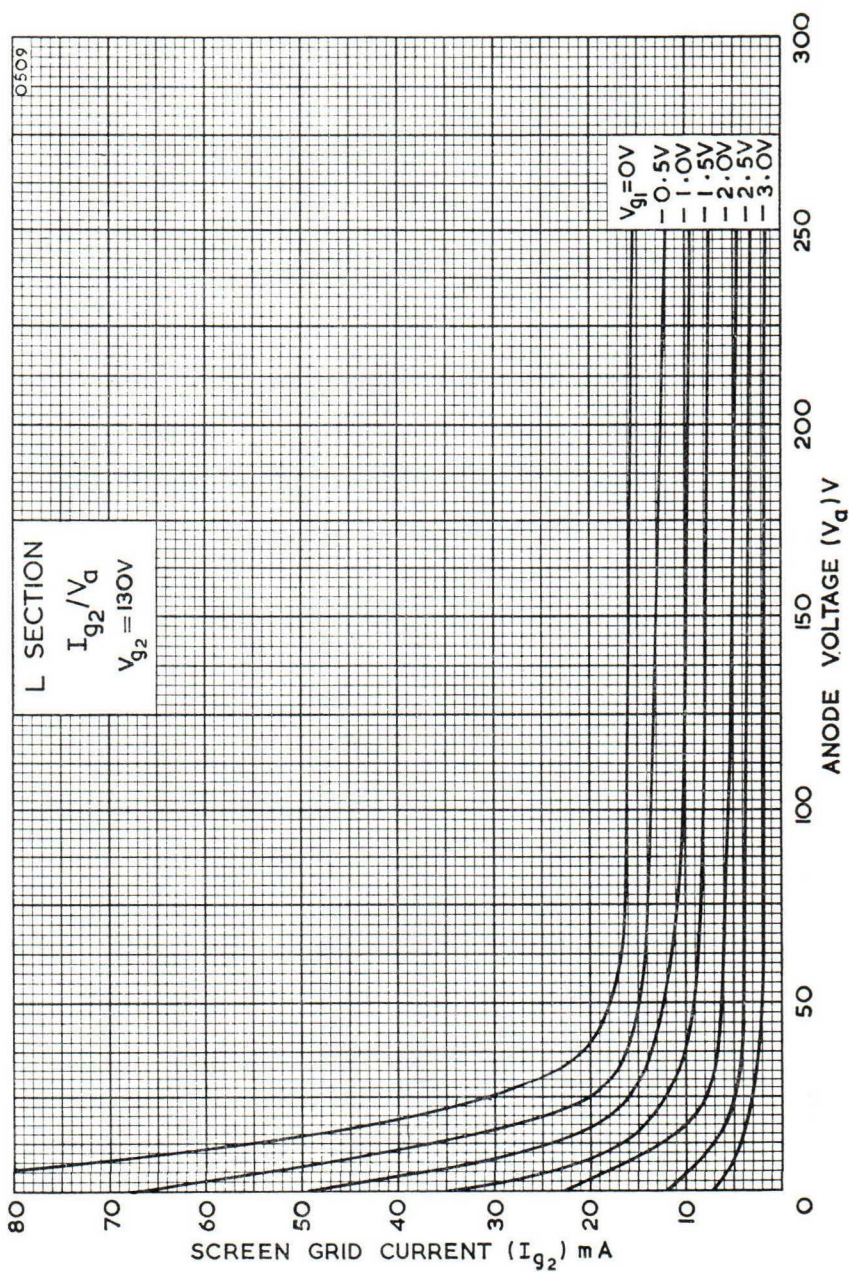


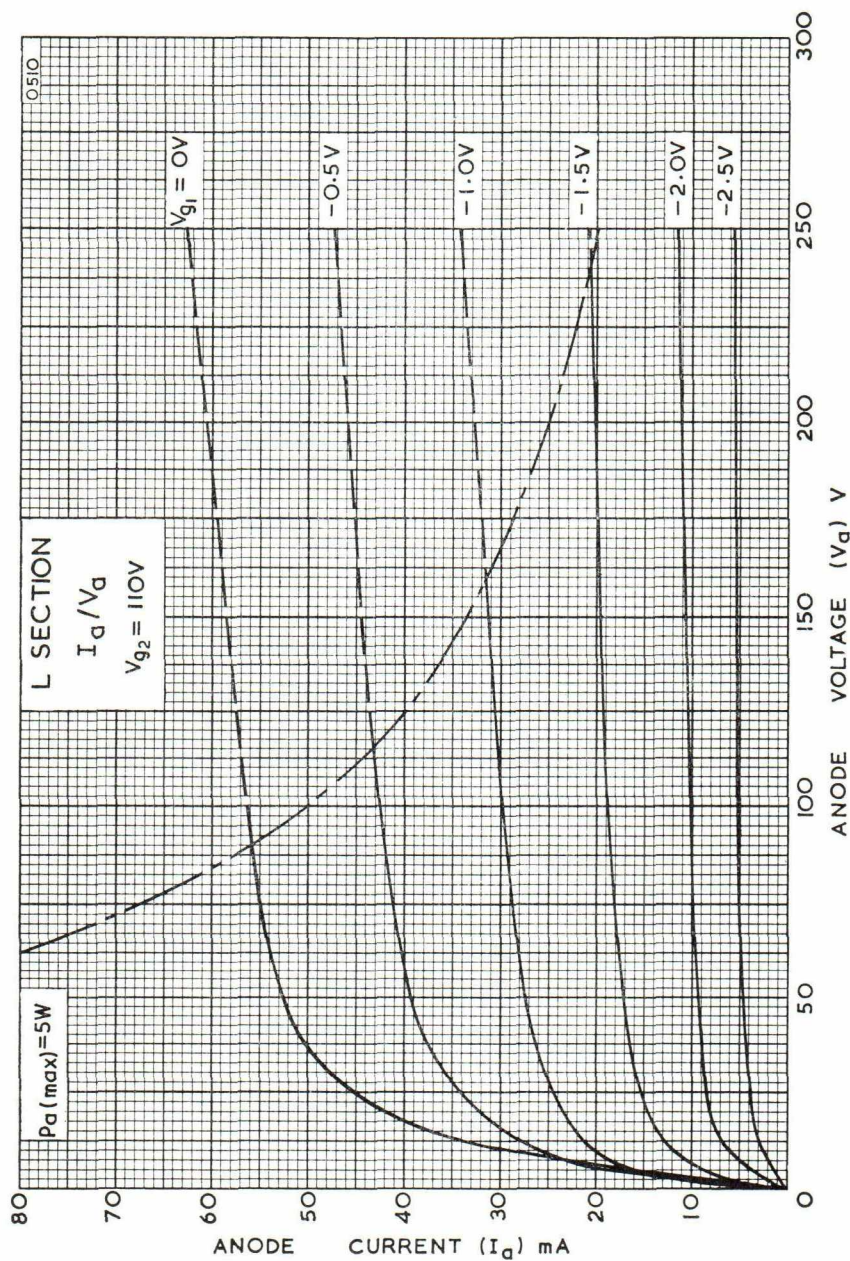


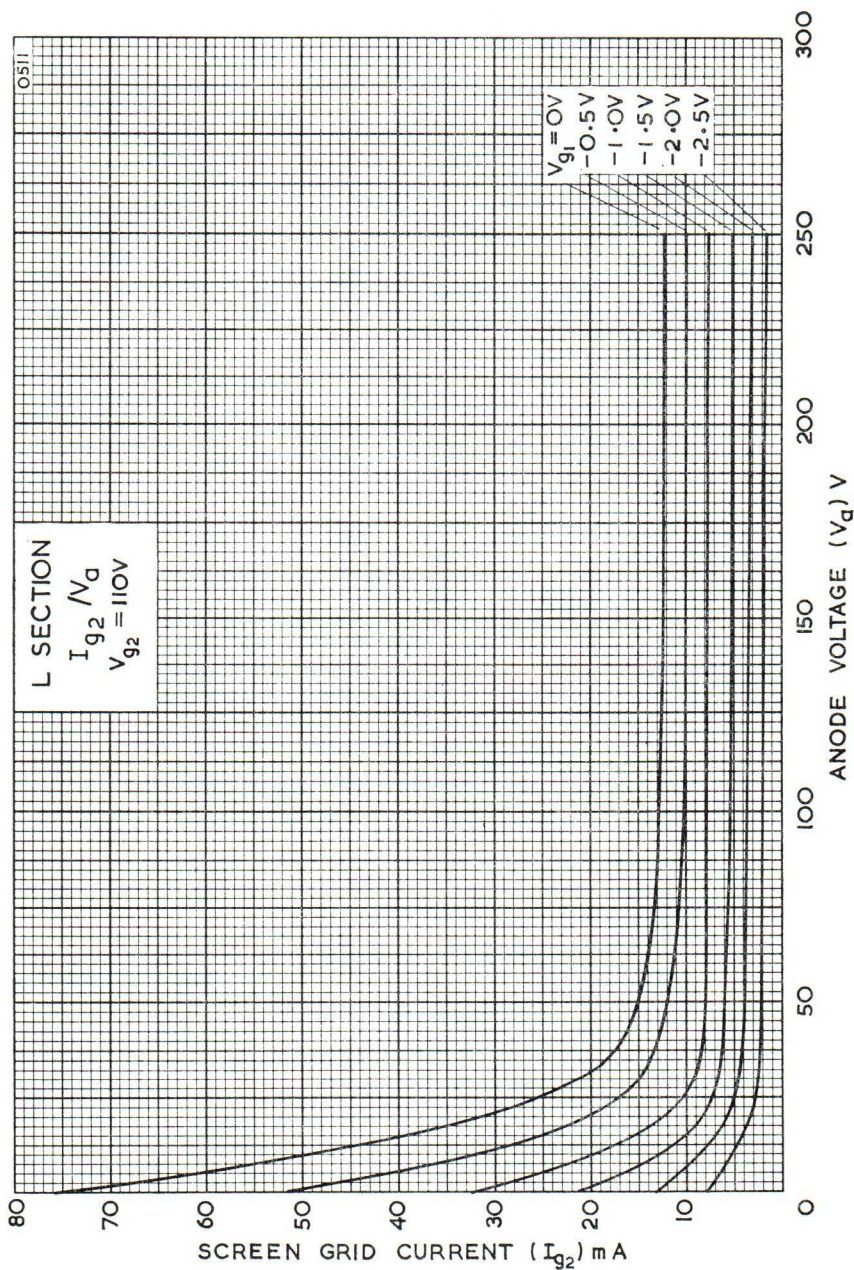




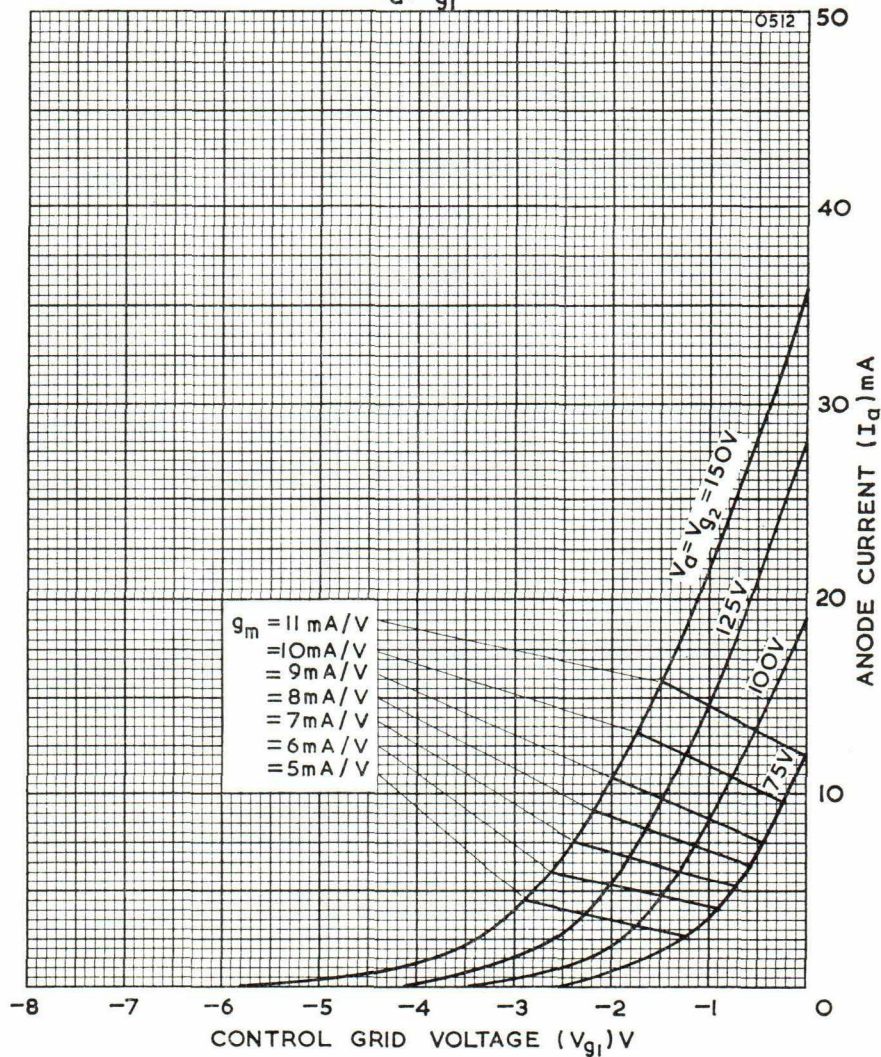








F SECTION

 I_a/V_{g1} 

F SECTION

$I_a, I_{g_2}, r_a, g_m/V_{g_1}$

$V_a = V_{g_2} = 150V$

