

CHARACTERISTICS (Continued).

TRIODE SECTION.

Anode Voltage	...	...	...	...	150 volts.
Cathode Bias Resistor	...	...	...	...	180 ohms.
Anode Current	...	...	...	...	11 mA.
Mutual Conductance	...	...	...	...	5.6 mA/V.
Anode Impedance	...	...	...	...	6.0 k Ω
μ	...	...	...	...	34

TYPICAL OPERATING CONDITIONS (As Frequency Changer).

TRIODE as Oscillator.

Anode Supply Voltage	$V_a(b)$	170	200	250	volts.
Anode Resistor	R_a	20	20	20	k Ω
Grid Resistor	R_g	20	20	20	k Ω
Oscillator Voltage	$V_{osc.}$	3	3	3	Volts. (r.m.s.).
Anode Current	I_a	3.3	4.1	5.7	mA.
Grid Current	I_g	160	160	160	μ A.
Mutual Conductance	$g_m(eff)$	2.8	3.2	3.9	mA/V.

PENTODE as Mixer.

Anode Voltage	V_a	170	200	250	volts.
Screen Feed Resistor	R_{g2}	30	45	70	k Ω
Grid Resistor	R_{g1}	1	1	1	M Ω
Grid Voltage	V_{g1}	0	0	0	volts.
Oscillator Voltage	$V_{osc.}$	3	3	3	volts. (r.m.s.).
Anode Current	I_a	5.0	5.0	5.2	mA.
Screen Current	I_{g2}	2.0	2.0	2.0	mA.
Grid Current	I_{g1}	3.7	3.7	3.7	μ A.
Conversion Conductance	g_c	1.75	1.65	1.8	mA/V.

CAPACITANCES

		with ext. shield	without ext. shield
Cap-at	...	0.018	<0.07 pF.
Cap-gt...	...	0.0035	0.008 pF.

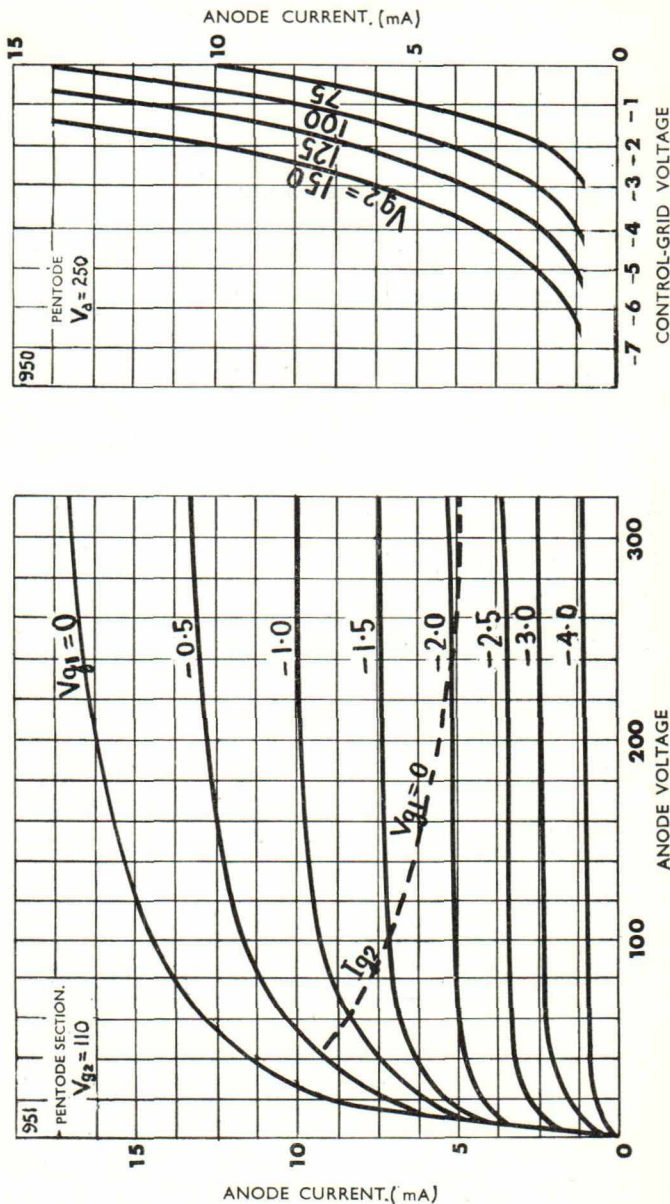
Pentode Section.

C_{in}	...	5.0	5.0 pF.
C_{out}	...	3.5	2.6 pF.
C_{a-g1}	...	<0.006	<0.01 pF.
C_{h-k}	...	3.0	3.0 pF.

Triode Section.

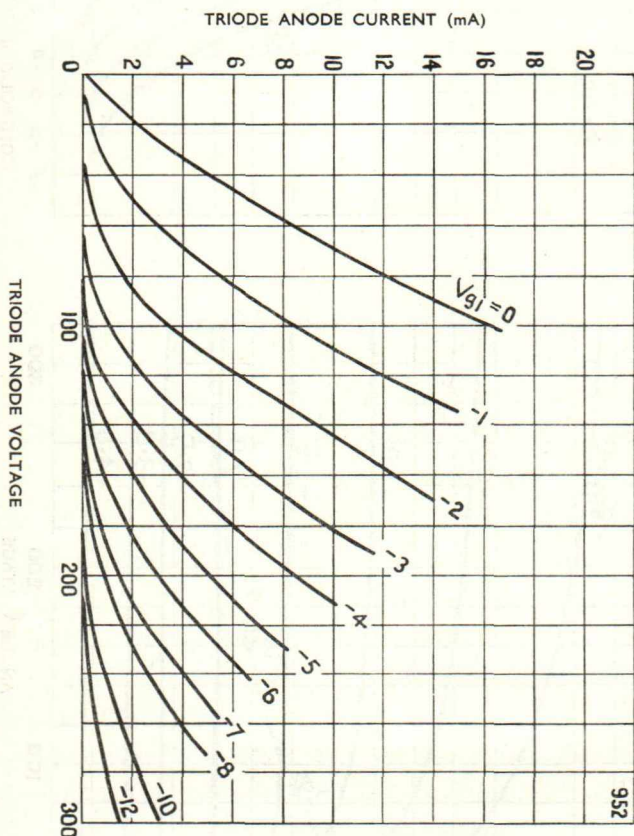
C_{in}	...	2.5	2.5 pF.
C_{out}	...	1.0	0.4 pF.
C_{a-g}	...	1.8	1.8 pF.
C_{h-k}	...	3.0	3.0 pF.

Typical Characteristics - PENTODE Section



ECF82

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Typical Characteristics - TRIODE Section.