

TRIODE PENTODE

KCF30

Triode pentode for use as frequency changer in battery-operated radio receivers.

FILAMENT

V_f	2.0 V
I_f	0.2 A

CAPACITANCES

	$C_{g1-gt+g3}$	0.2 μ F
Pentode Section	C_{a-all}	8.0 μ F
	C_{g-all}	6.5 μ F
	C_{a-g1}	0.01 μ F
Triode Section	C_{a-all} (less g_t-a_t)	3.75 μ F
	C_{g-all} (less g_t-a_t)	9.0 μ F
	C_{a-g}	2.0 μ F

OPERATING CONDITIONS - With g_3 Injection

V_a	100	120	120	V
V_{g2}	60	60	40	V
V_{g1}	-1.5	-1.5	-0.3	V
I_a	0.53	0.53	0.55	mA
I_{g2}	0.97	0.97	0.95	mA
g_c	250	260	285	μ A/V
$V_{osc(pk)min}$	8.0	8.0	8.0	V
V_{g1} ($g_c=10\mu A/V$)	-12.5	-14.0	-14.0	V
* R_{gt}	50	50	50	K Ω

* Grid leak returned to $r+$

CHARACTERISTICS - TRIODE SECTION

V_a	100 V
V_{g1}	0 V
g_m	1.7 mA/V
μ	18



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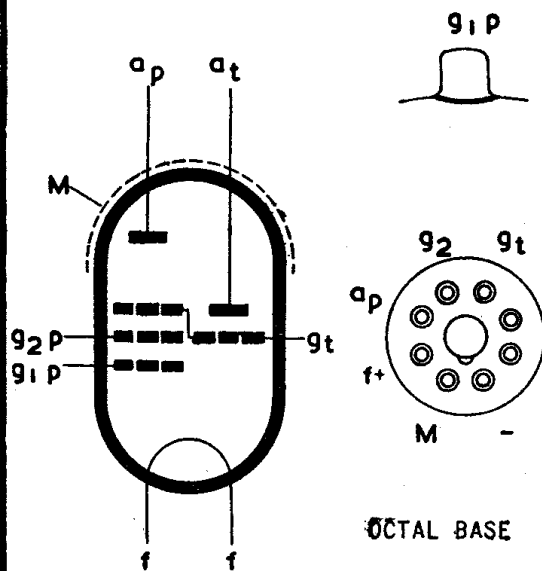
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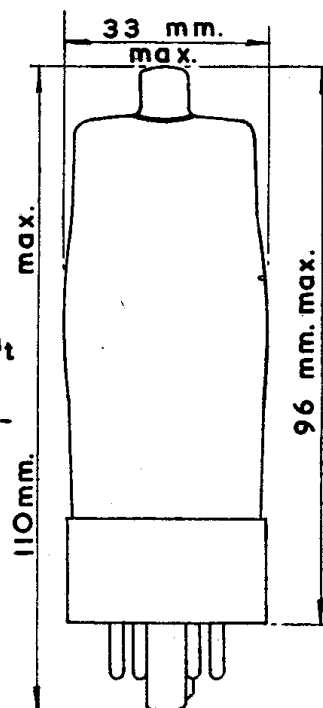
LIMITING VALUES

Pentode Section	V_a max	150	V
	V_{g2} max	150	V
Triode Section	V_a max	150	V
	I_a (pk) max	15	mA

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



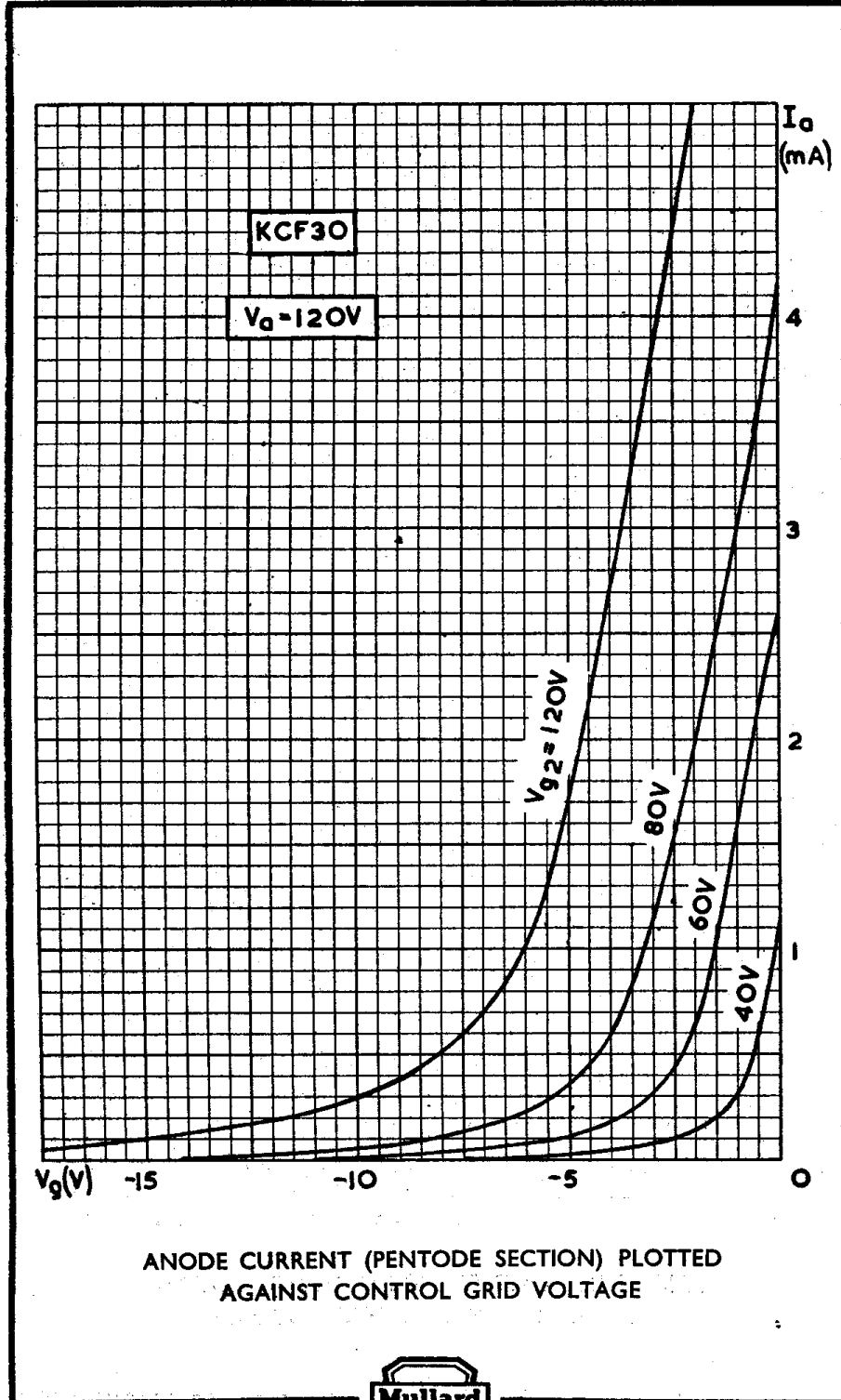
DIMENSIONS



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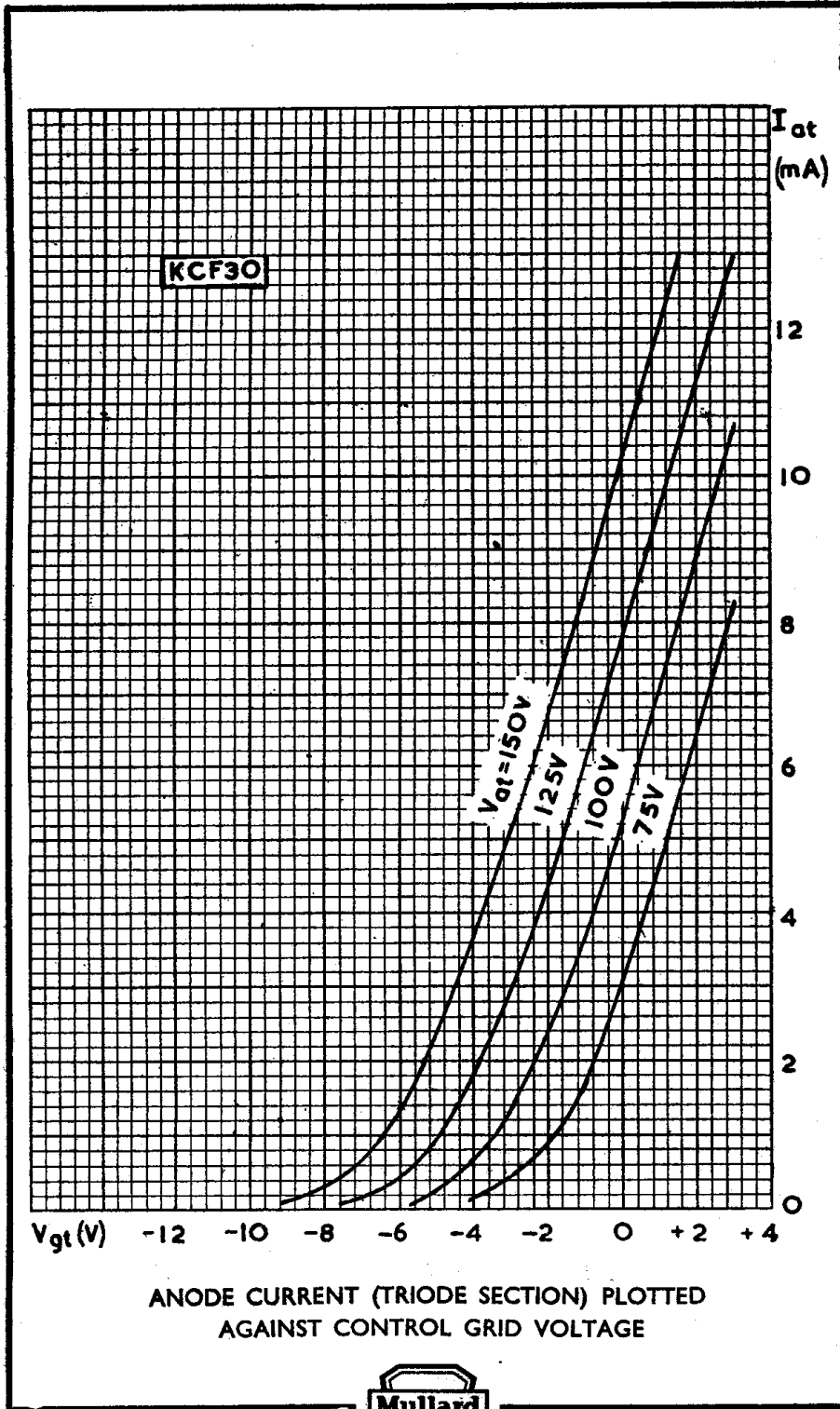
ANODE CURRENT (PENTODE SECTION) PLOTTED AGAINST CONTROL GRID VOLTAGE



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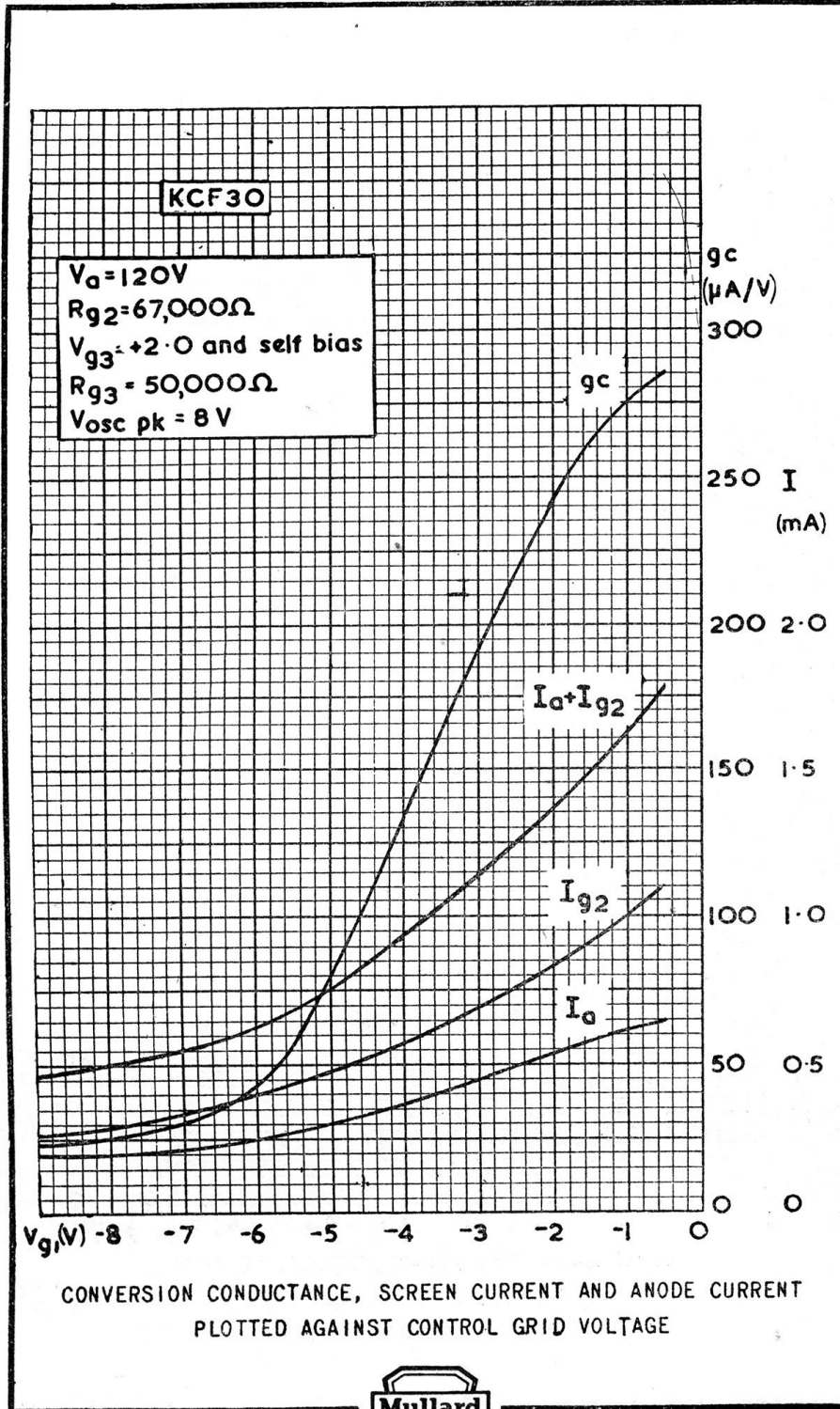
ANODE CURRENT (TRIODE SECTION) PLOTTED AGAINST CONTROL GRID VOLTAGE



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