

LOW MICROPHONY R.F. OR A.F. PENTODE

EF37

High gain pentode with special anti-microphonic construction, for use in pre-amplifier stages.

HEATER

This valve is suitable for DC/AC operation.

V_h	6.3	V
I_h	0.2	A

CAPACITANCES

C_{a-g}	< 0.02	$\mu\mu F$
C_{in}	5.5	$\mu\mu F$
C_{out}	8.5	$\mu\mu F$

OPERATING CONDITIONS AS R.F. OR I.F. AMPLIFIER

V_a	100	200	250	V
V_{g2}	100	100	100	V
I_a	3	3	3	mA
V_{g1}	-2	-2	-2	V
I_{g2}	0.8	0.8	0.8	mA
μ	1,800	3,600	4,500	
g_m	1.8	1.8	1.8	mA/V
r_a	1.0	2.0	2.5	megohms

LIMITING VALUES

V_a (b) max.	550	V
V_a max.	300	V
w_a max.	1	W
I_k max.	6	mA
V_{g2} (b) max.	550	V
V_{g2} max.	125	V
w_{g2} max.	0.3	W
V_{g1} max. ($I_{g1}=0.3\mu A$)	-0.6	V
I_{g2} max.	1.4	mA
I_{g2} min.	0.8	mA
R_{g1} max (self bias)	3	megohms
R_{g1} max (fixed bias)	1	megohm
V_{h-k} max.	100	V
R_{h-k} max.	20,000	ohms

OPERATING CONDITIONS CONNECTED AS TRIODE

g_2 connected to a; g_3 connected to k

V_a	150	V
V_{g1}	-3	V
I_a	6	mA
μ	28	
g_m	2.8	mA/V
r_a	10,000	ohms



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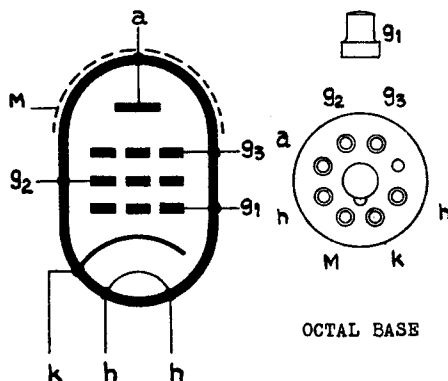
OPERATING CONDITIONS AS RESISTANCE-COUPLED A.F. AMPLIFIER CONNECTED AS PENTODE

V_b V	R_a M Ω	I_a mA	R_{g2} M Ω	I_{g2} mA	R_k Ω	V_{out} (Vrms)	$\frac{V_{out}}{V_{in}}$	D_{tot} (%)
300	0.3	0.7	0.8	0.25	4000	11.2	175	1.4
250	0.3	0.6	0.8	0.2	4000	8.5	165	1.6
200	0.3	0.45	0.6	0.17	6400	5.0	130	1.8
100	0.3	0.22	0.6	0.08	6400	2.4	105	<1.0
300	0.2	1.1	0.4	0.4	3000	11.2	150	<1.0
250	0.2	0.9	0.4	0.35	3000	8.5	140	1.3
200	0.2	0.6	0.4	0.23	5000	5.0	115	1.0
100	0.2	0.3	0.4	0.12	5000	2.4	100	0.9
300	0.1	1.9	0.25	0.65	1600	11.2	115	1.0
250	0.1	1.6	0.25	0.5	1600	8.5	110	1.0
200	0.1	1.2	0.2	0.4	3000	5.0	95	<1.0
100	0.1	0.6	0.2	0.2	3000	2.4	85	<1.0

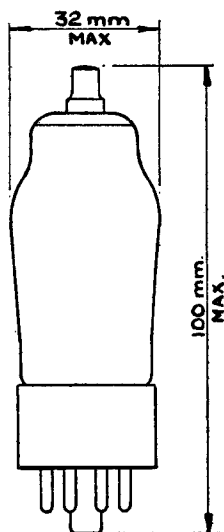
* I_a and I_{g2} measured at zero signal.

NOTE: Resistance of grid leak of following valve = 0.7 M Ω

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



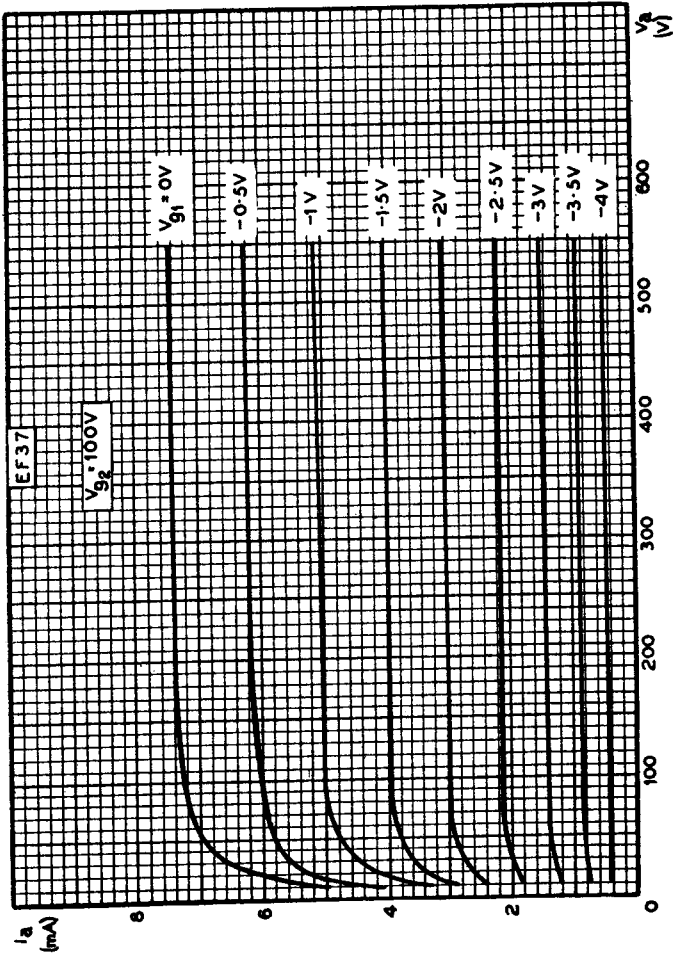
DIMENSIONS



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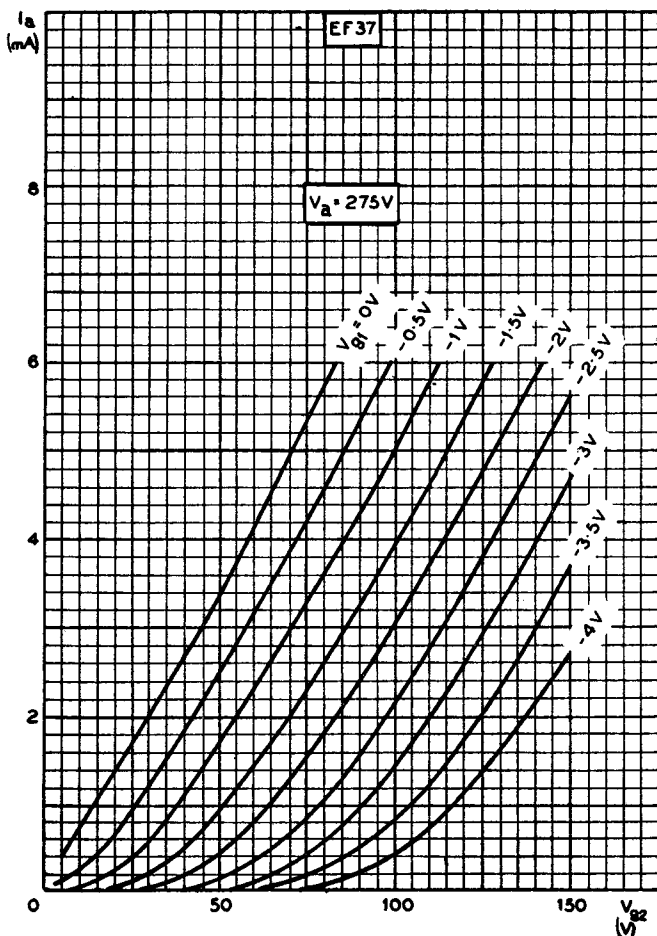
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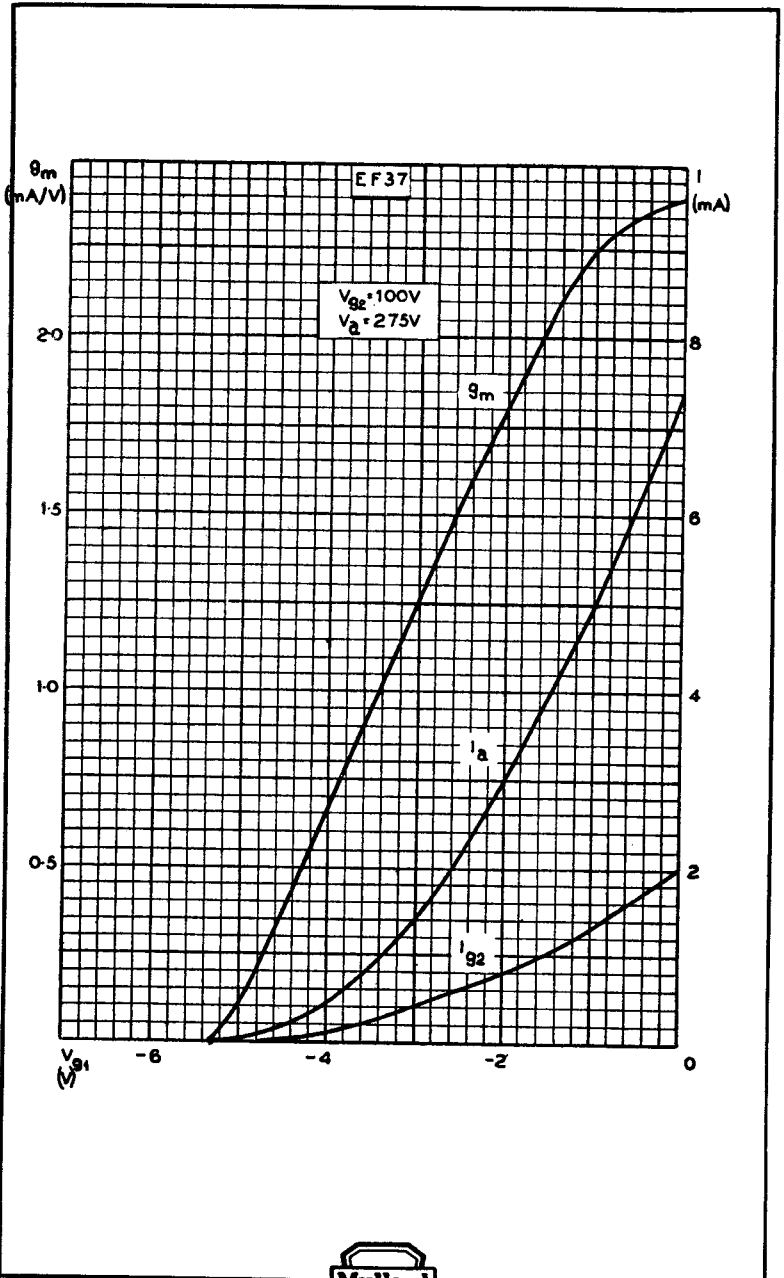
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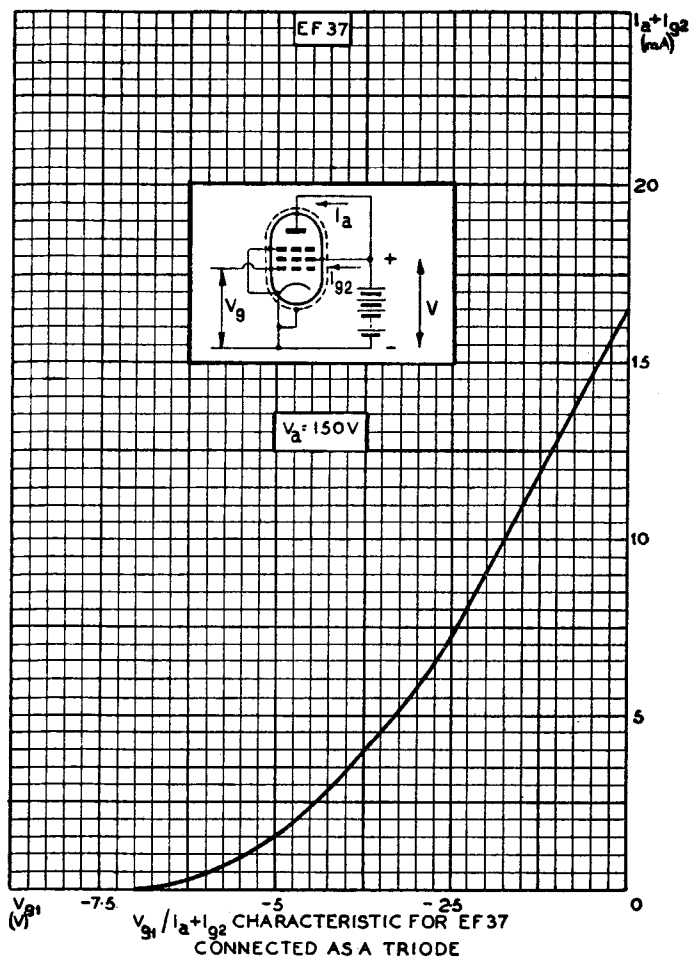
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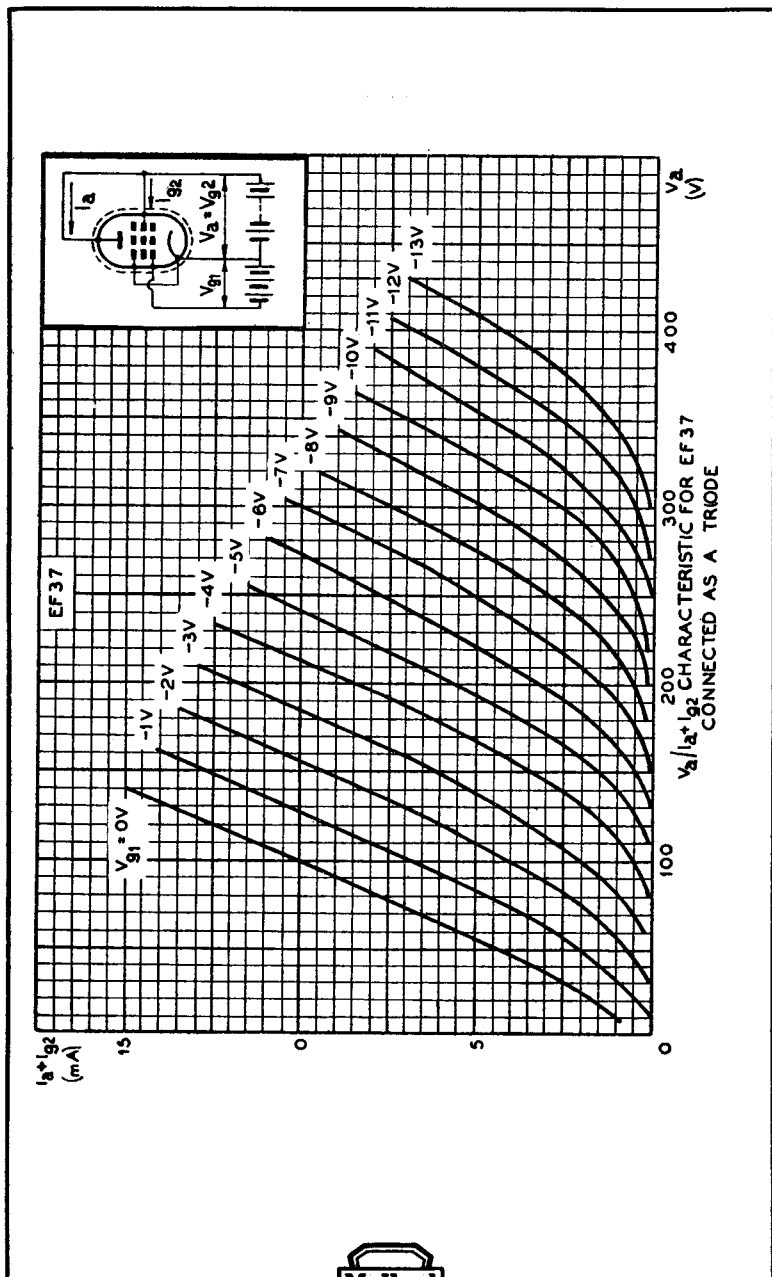
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