

# 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
$\mu$	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
$\mu$	28	
$g_m$	2.8	mA/V
$r_a$	10,000	ohms



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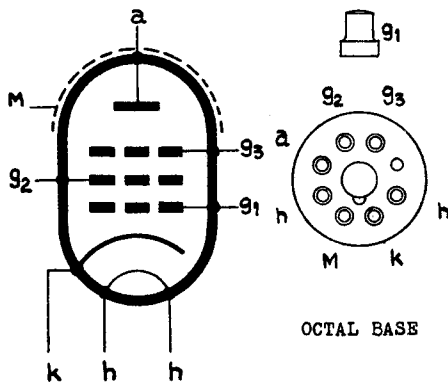
### OPERATING CONDITIONS AS RESISTANCE-COUPLED A.F. AMPLIFIER CONNECTED AS PENTODE

$V_b$ V	$R_a$ M $\Omega$	$I_a$ mA	$R_{g2}$ M $\Omega$	$I_{g2}$ mA	$R_k$ $\Omega$	$V_{out}$ (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

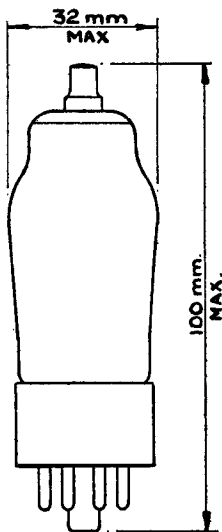
\*  $I_a$  and  $I_{g2}$  measured at zero signal.

NOTE: Resistance of grid leak of following valve = 0.7 M $\Omega$

#### ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



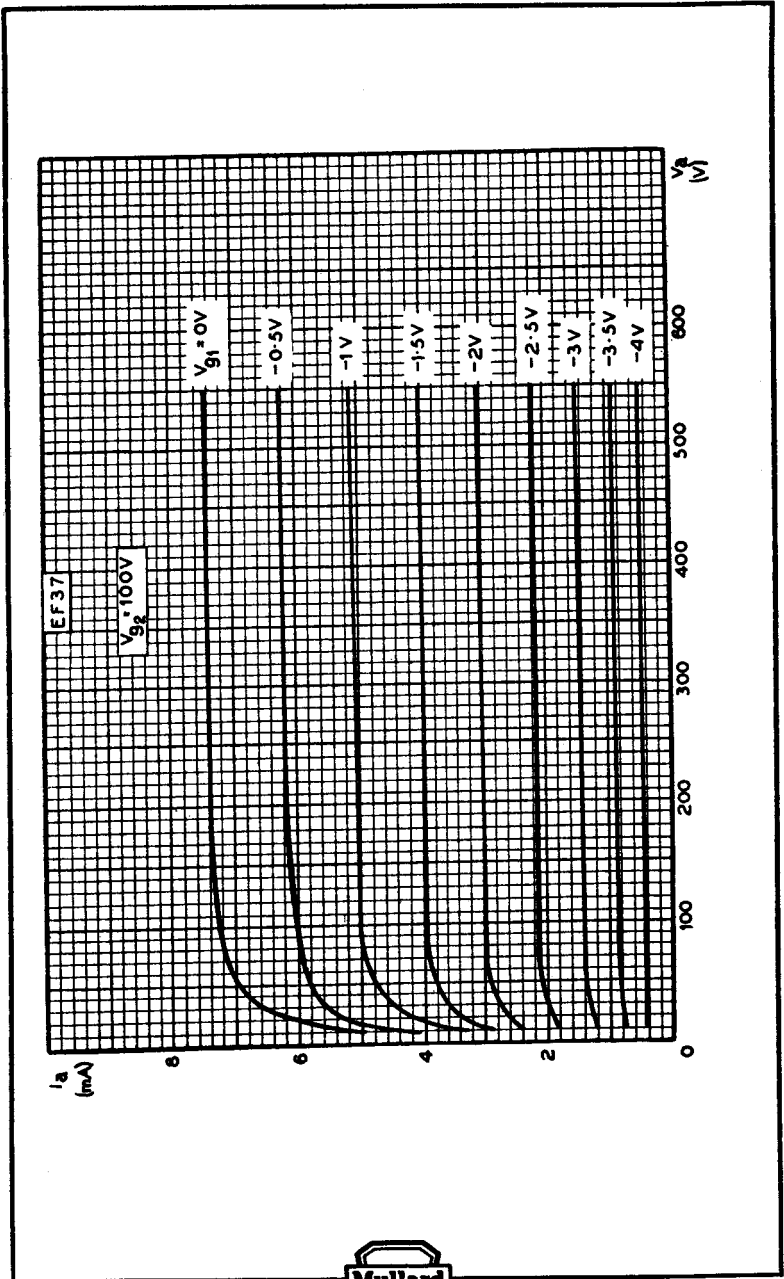
#### DIMENSIONS



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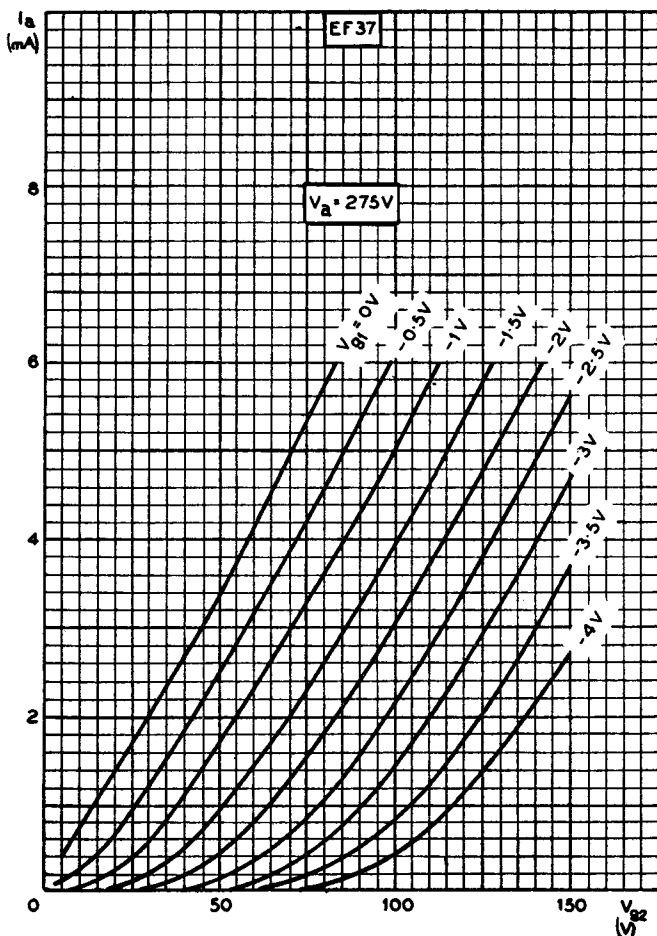
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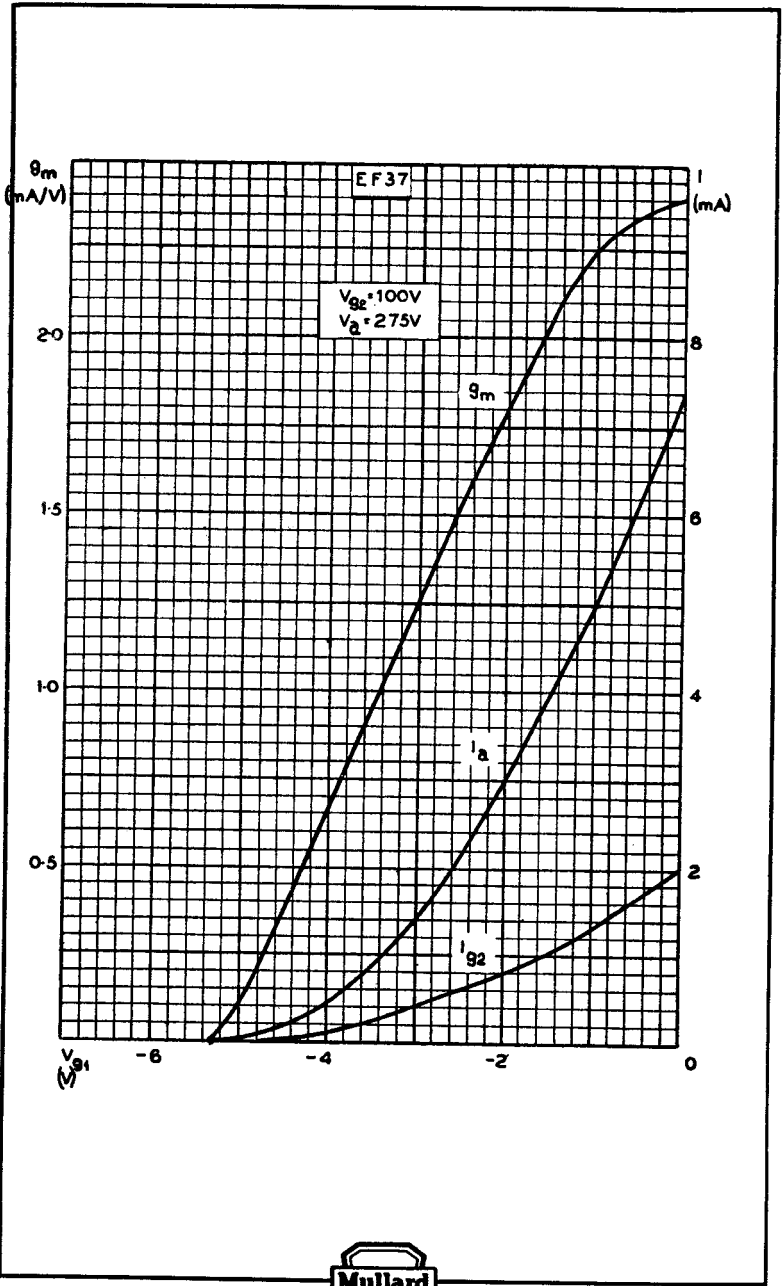
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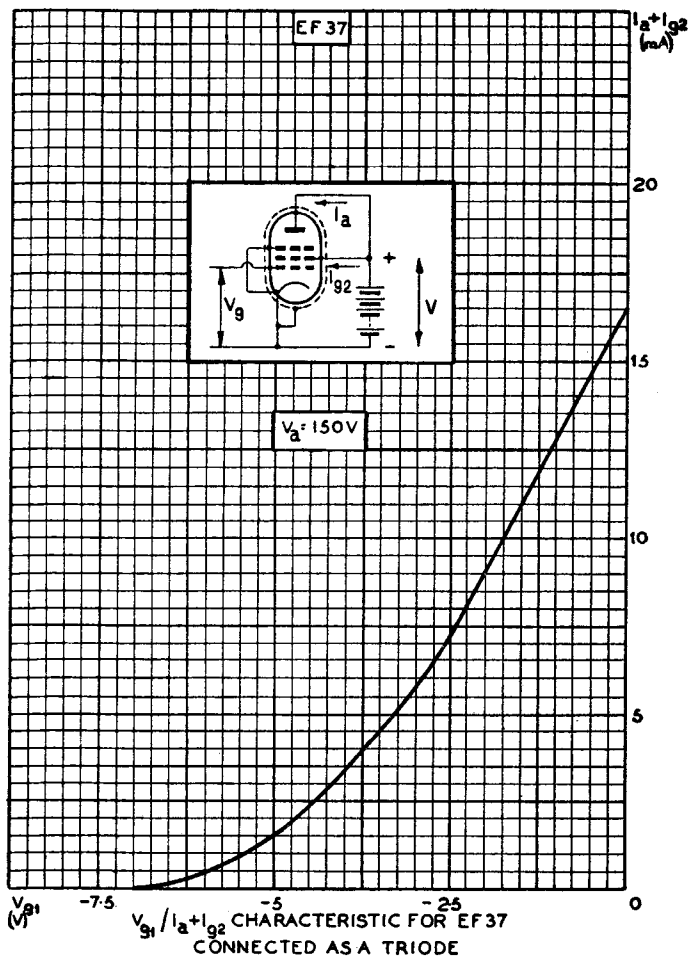
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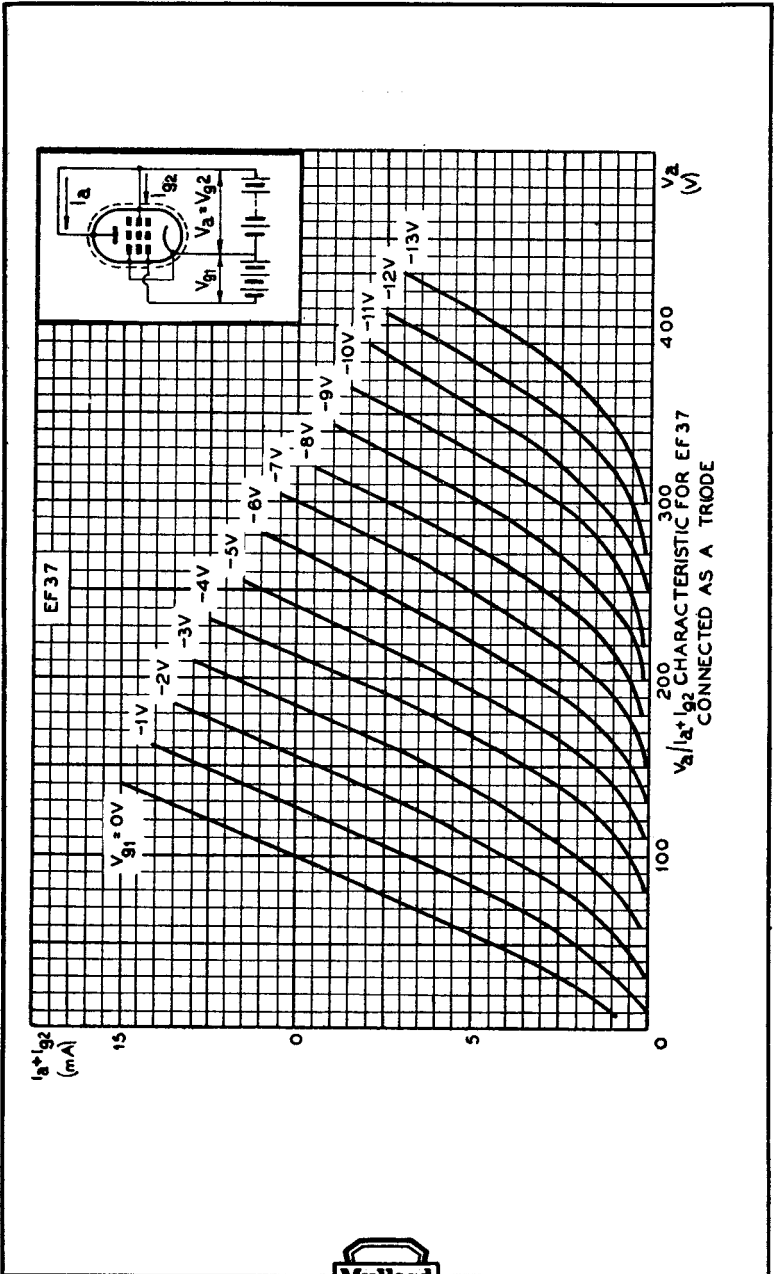
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