

# OUTPUT PENTODE

# EL32

Output pentode with 200mA. heater for use in A.C.,  
D.C./A.C. or car radio receivers.

## HEATER

This valve is suitable for DC/AC operation.

$V_h$	6.3	V
$I_h$	0.2	A

## OPERATING CONDITIONS AS CLASS 'A' AMPLIFIER

$V_a$	250	V
$V_{g2}$	250	V
$V_{g1}$	-18	V
$I_a$	32	mA
$I_{g2}$	5	mA
$g_m$	2.8	mA/V
$r_a$	70,000	ohms
$R_a$	8,000	ohms
$W_{out}$	3.6	W
$V_{in}(rms)$	10	V
$D_{tot}$	10	%

## OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

$V_a$	200	250	V
$V_{g2}$	200	250	V
$R_k$	300	310	ohms
$I_{a0}$	2x21	2x27.5	mA
$I_a \text{ max.}$	2x24.5	2x32	mA
$I_{g20}$	2x3.85	2x4.4	mA
$I_{g2} \text{ max.}$	2x6.1	2x8.0	mA
$R_a$ (anode to anode)	9,000	8,000	ohms
$W_{out}$	5.1	7.0	W
$D_{tot}$	1.6	1.5	%

## OPERATING CONDITIONS AS TRIODE

$V_a$	200	200	250	250	V
$V_{g1}$	-19	-14	-27	-20	V
$I_a$	15	30	15	30	mA
$g_m$	2.1	3.2	1.7	2.6	mA/V
$r_a$	3,300	2,400	4,100	3,100	ohms
$\mu$	7	8	7	8	



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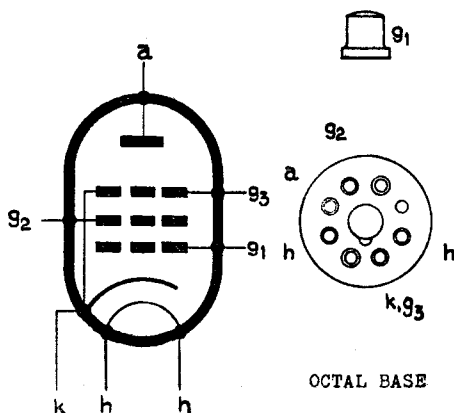
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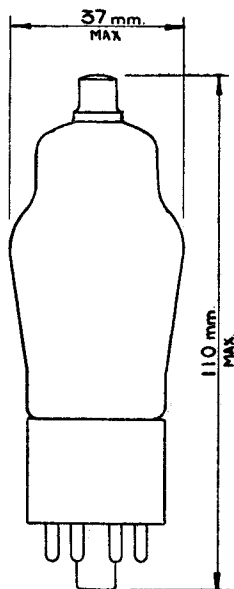
### LIMITING VALUES

$V_{a(b)}$ max.	550	V
$V_a$ max.	250	V
$w_a$ max.	8	W
$I_k$ max.	45	mA
$V_{g2(b)}$ max.	550	V
$V_{g2}$ max.	250	V
$w_{g2}$ max.	1.6	W
$V_{g1}$ max. ( $I_{g1}=0.3\mu A$ )	-1.3	V
$R_{h-k}$ max.	5,000	ohms
$R_{g1}$ max. (Self bias)	1	megohm
$R_{g1}$ max. (Fixed bias)	0.6	megohm
$V_{h-k}$ max.	50	V

### ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



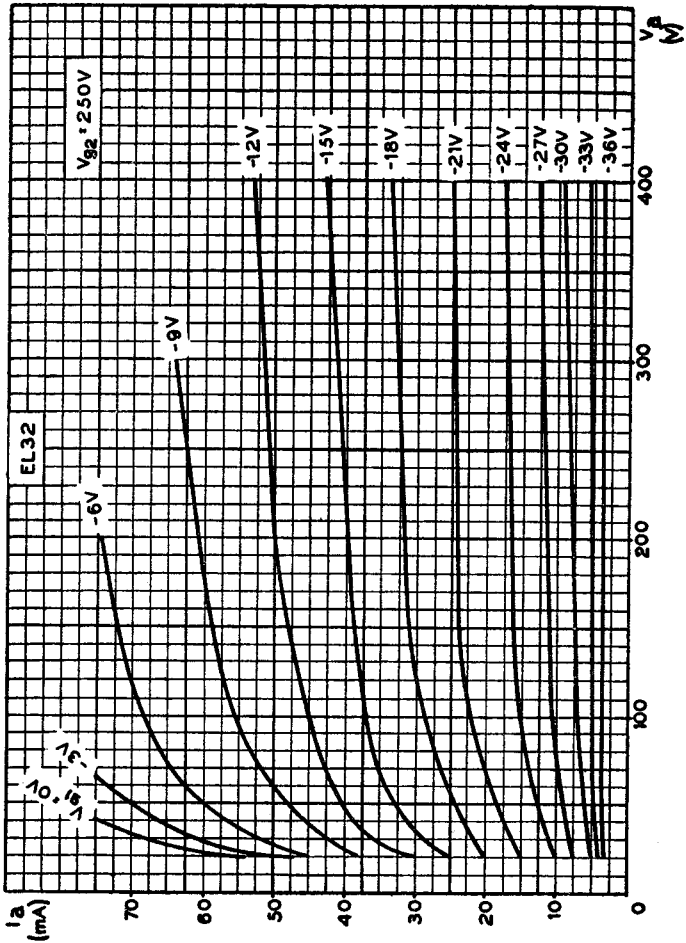
### DIMENSIONS



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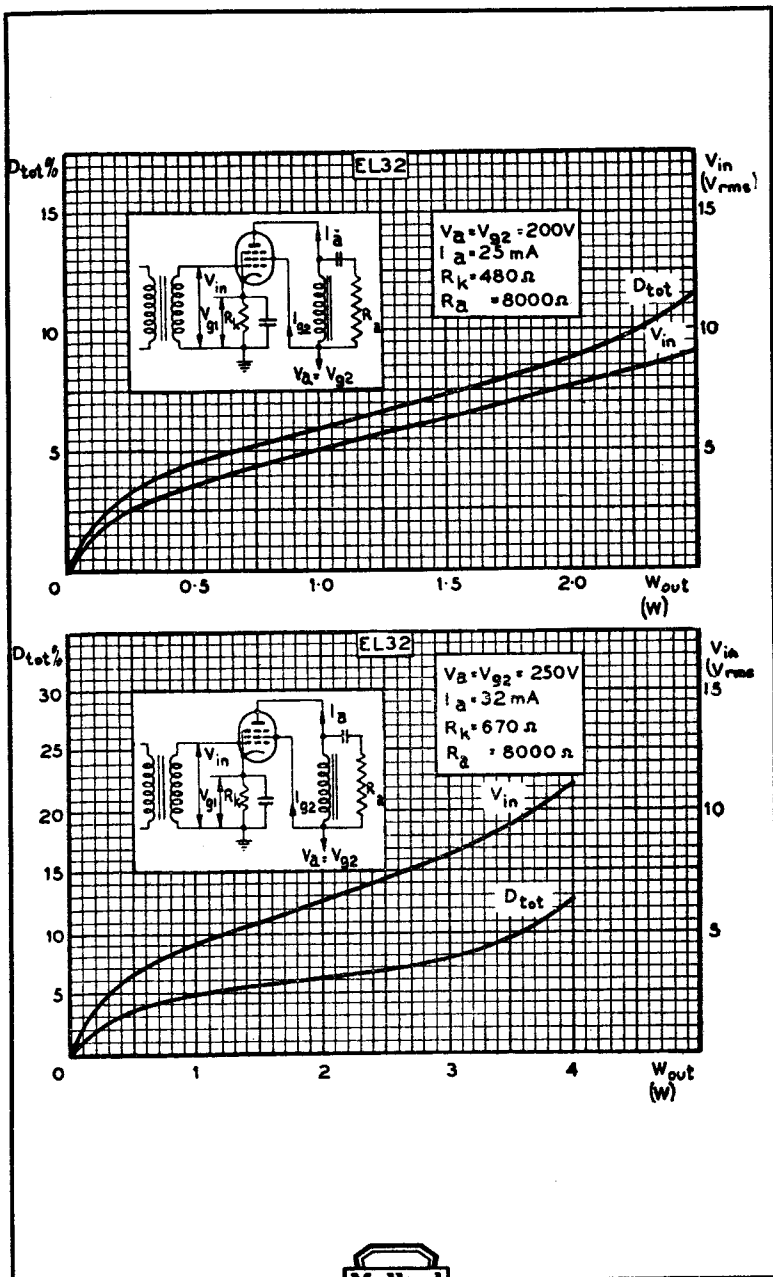
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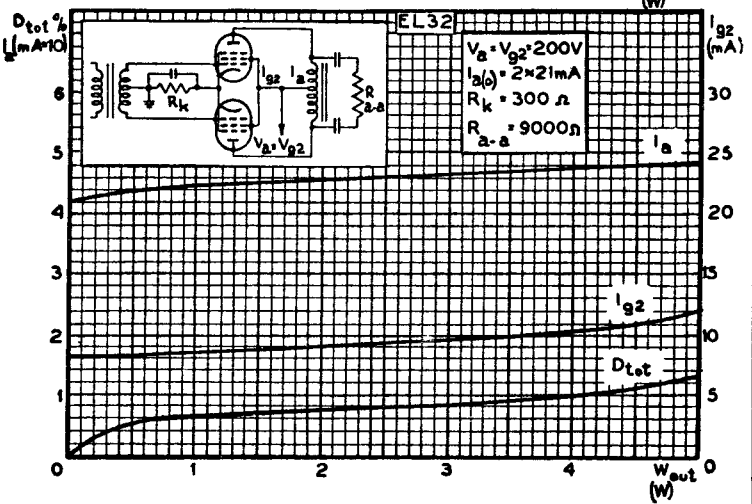
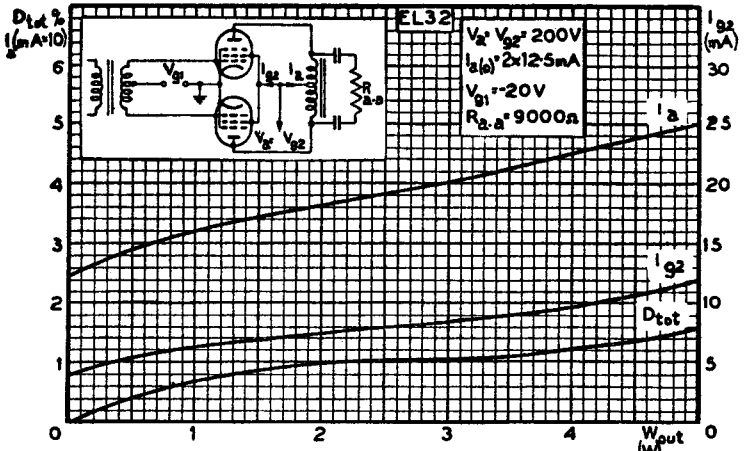
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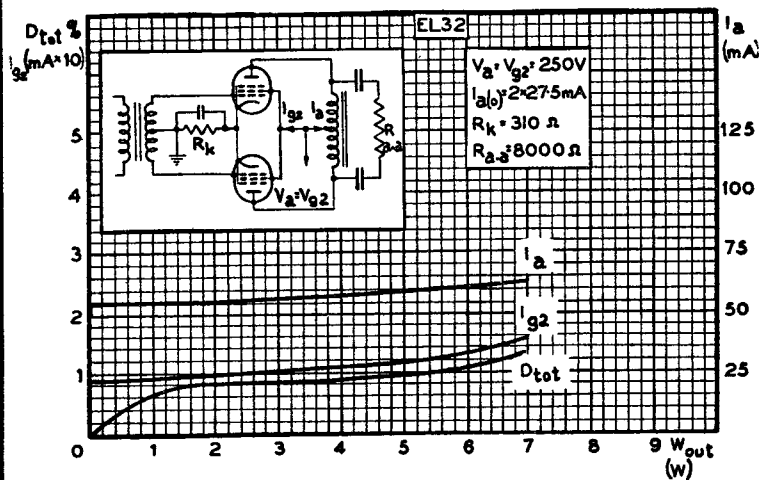
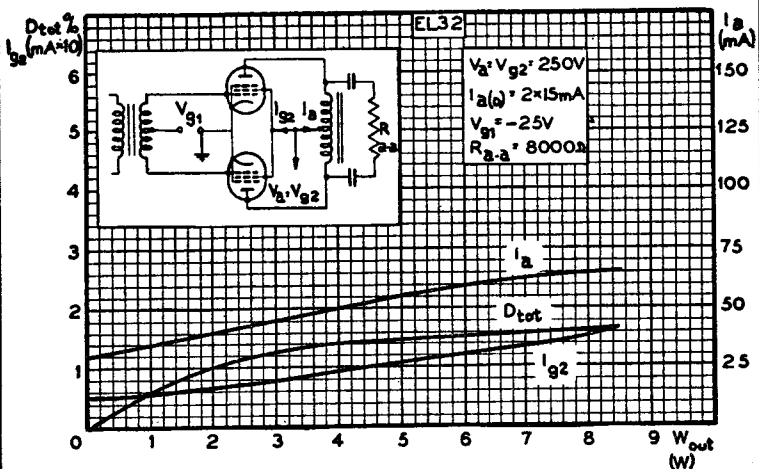
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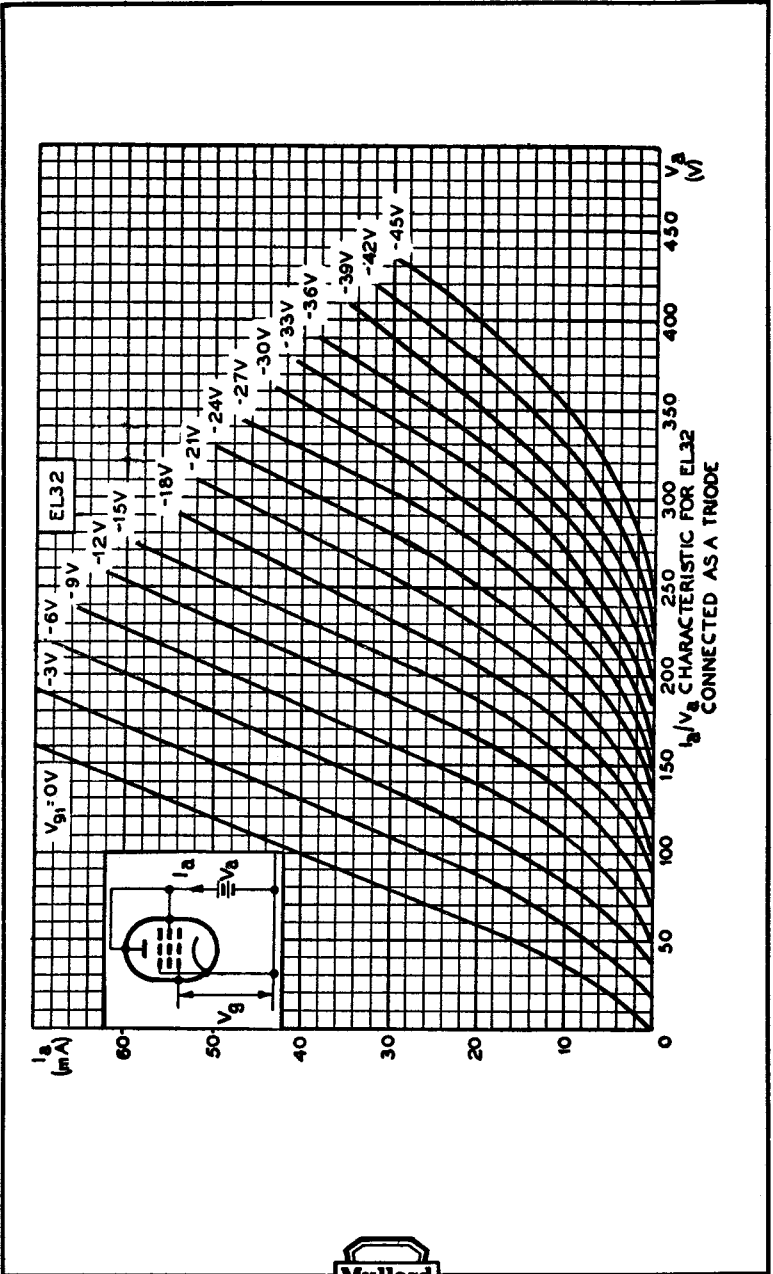
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