

# MINIATURE OUTPUT PENTODE

# EL91

Miniature output pentode for use in single or push-pull output stages of miniature equipment.

## HEATER

$V_h$	6.3	V
$I_h$	0.2	A
Heating Time	12 secs	approx.

## CAPACITANCES

$c_{in}$	4.2	$\mu\mu F$
$c_{out}$	3.2	$\mu\mu F$
$c_{a-g}$	<0.5	$\mu\mu F$

## OPERATING CONDITIONS - SINGLE VALVE CLASS A

$V_a$	250	V
$V_{g2}$	250	V
$I_a$	16	mA
$I_{g2}$	2.4	mA
$S_m$	2.6	mA/V
$\mu_{g1-g2}$	12	-
$r_a$	130,000	$\Omega$
$R_k$	680	$\Omega$
$R_n$	16,000	$\Omega$
$V_{in}$	5.3	V.rms
$W_{out}$	1.4	W
$D_{tot}$	10	%

## OPERATING CONDITIONS - PUSH-PULL SELF BIAS.

$V_a$	250	V
$V_{g2}$	250	V
$I_a(o)$	2x11	mA
$I_{g2}(o)$	2x1.6	mA
$R_k$	600	$\Omega$
$R_{a-a}$	24,000	$\Omega$
$V_{in}(W_{out}=50mW)$	2x0.8	V.rms
$I_a(max.sig.)$	2x12.8	mA
$I_{g2}(max.sig.)$	2x4.1	mA
$V_{in}$	2x12	V.rms
$W_{out}$	4.0	W
$D_{tot}$	3.2	%



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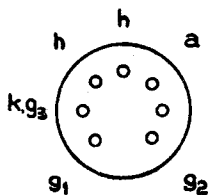
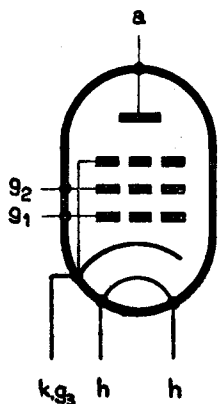
### OPERATING CONDITIONS - PUSH-FULL FIXED BIAS

$V_a$	250	V
$V_{g2}$	250	V
$V_{g1}$	-19	V
$I_a(o)$	2x5	mA
$I_{g2}(o)$	2x0.65	mA
$R_{a-a}$	20,000	$\Omega$
$V_{in}(W_{out}=50mW)$	2x1.5	V.rms
$I_a$ (max.sig.)	2x16	mA
$I_{g2}$ (max.sig.)	2x4.5	mA
$V_{in}$	2x13	V.rms
$W_{out}$ (start of $I_{g1}$ )	4.8	W
$D_{tot}$ (start of $I_{g1}$ )	3.3	%

### LIMITING VALUES

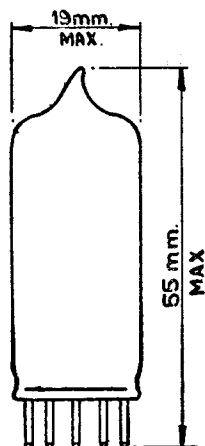
$V_a$ max.	250	V
$V_{g2}$ max.	250	V
$W_a$ max.	4.0	W
$W_{g2}$ max.	0.6	W
$I_k$ max.	25	mA
$V_{h-k}$ max.	50	V
$R_{g1}$ max (cathode bias)	0.7	$M\Omega$

### ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



B7G BASE

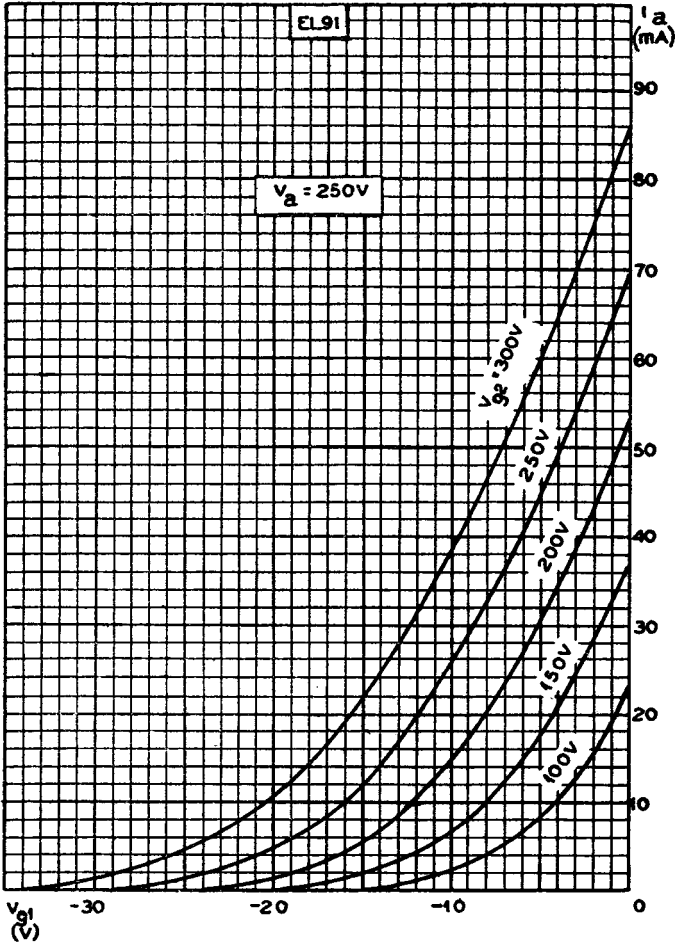
### DIMENSIONS



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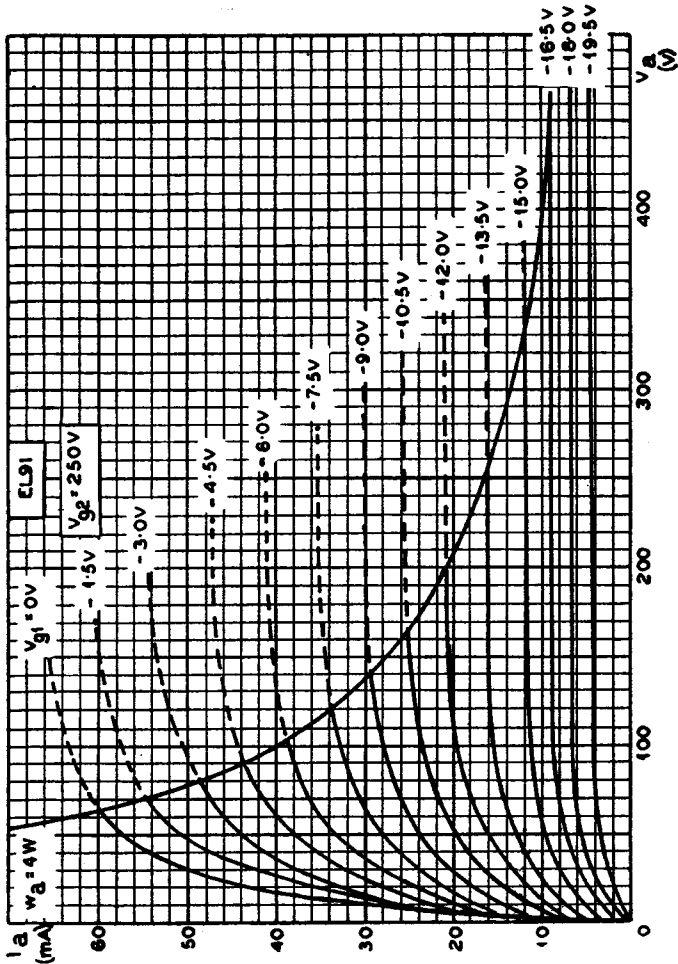
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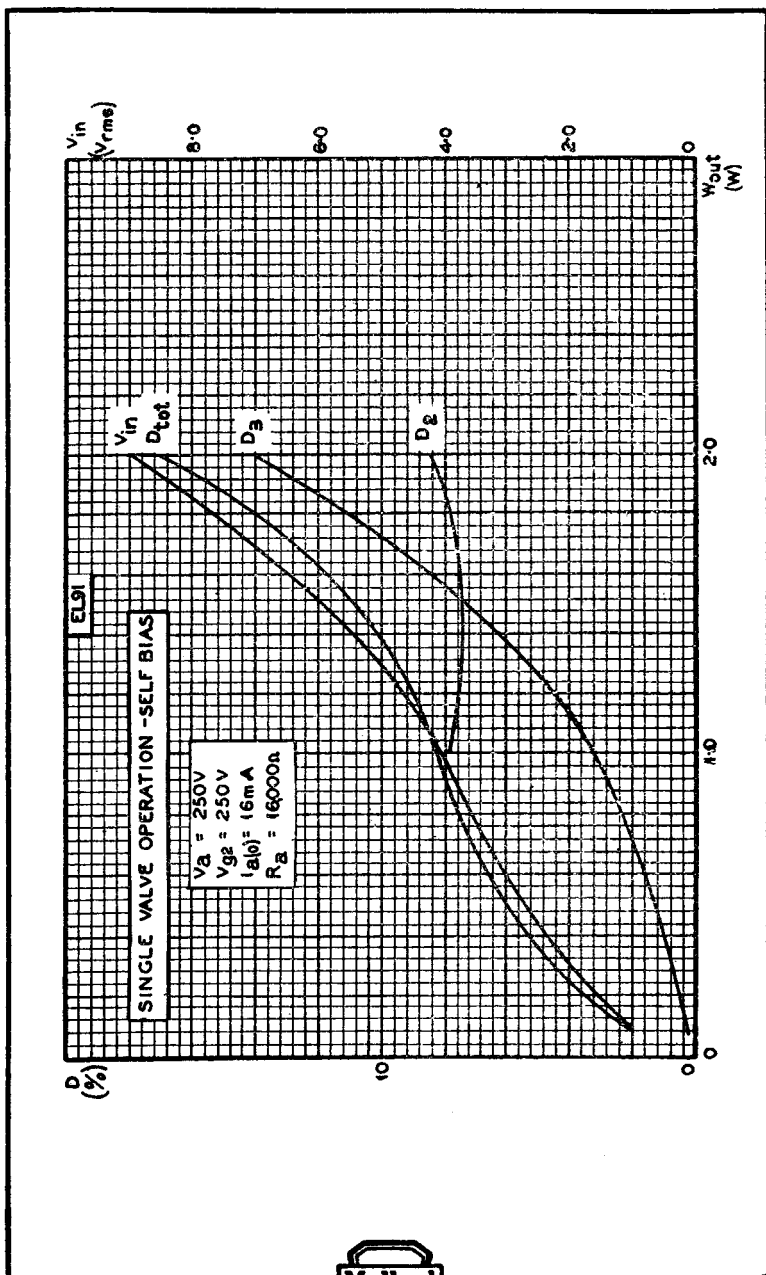
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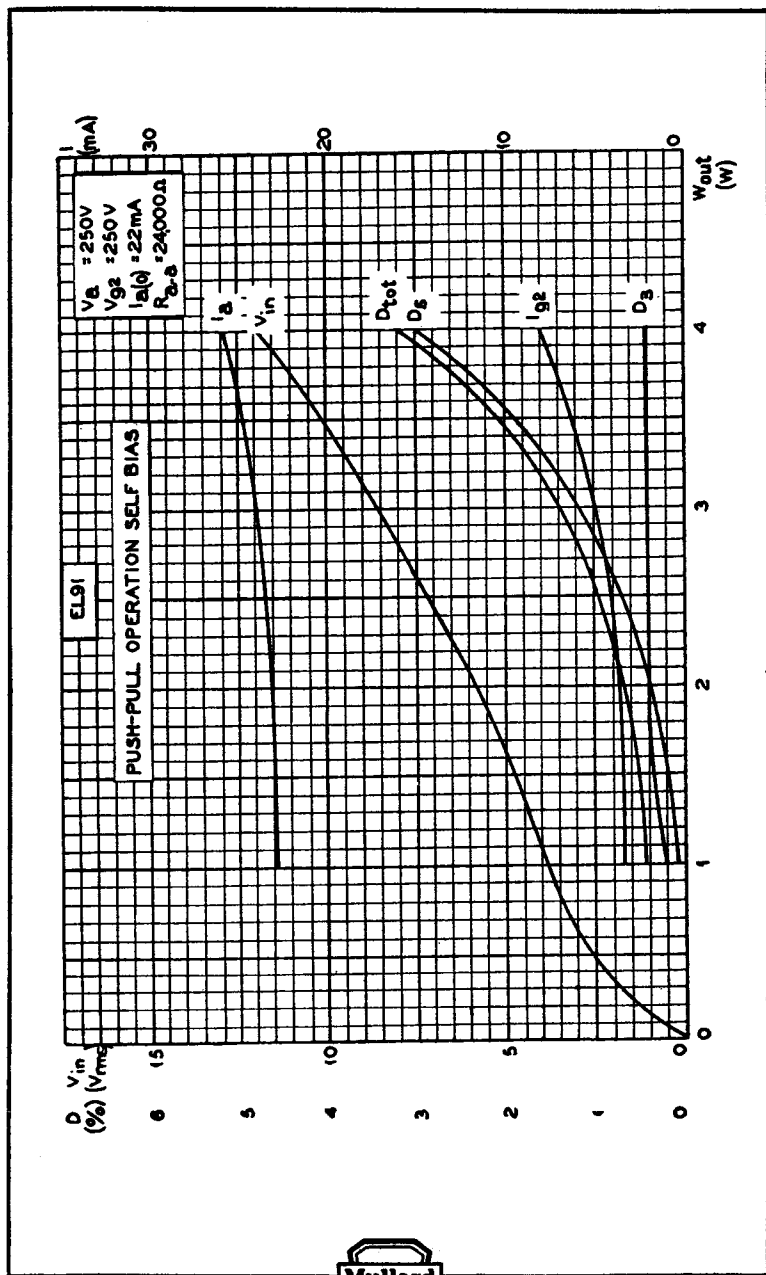
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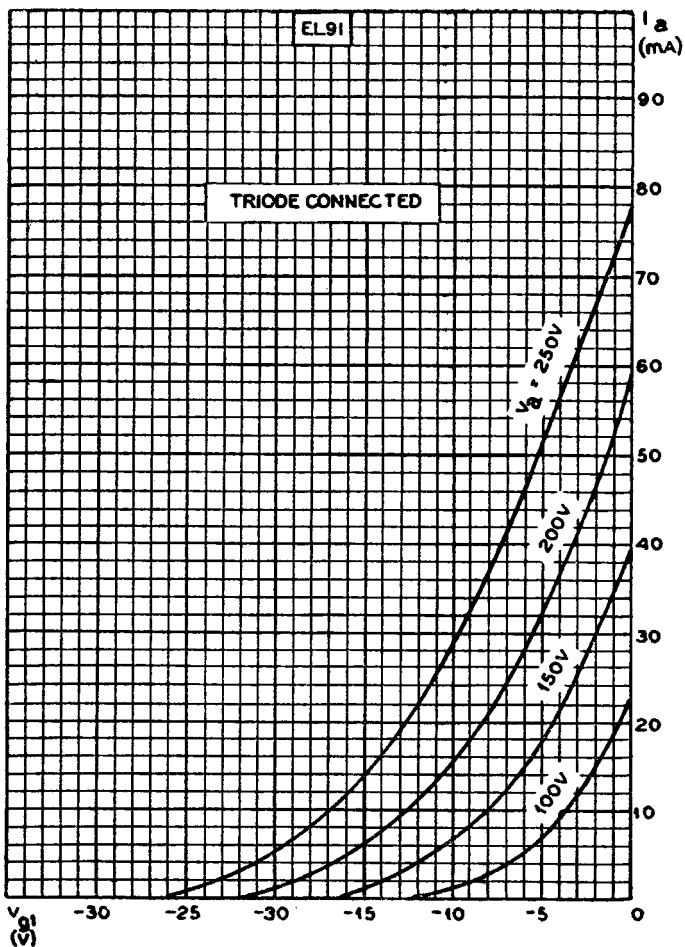
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