

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
g_m	2.6	mA/V
μ_{g1-g2}	12	-
r_a	130,000	Ω
R_k	680	Ω
R_n	16,000	Ω
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	Ω
R_{a-a}	24,000	Ω
$V_{in}(W_{out}=50mW)$	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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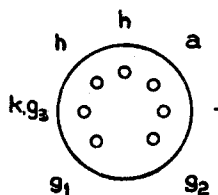
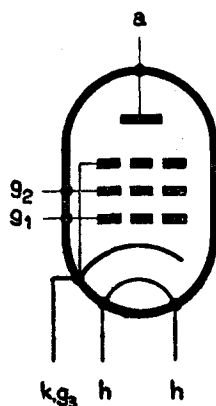
OPERATING CONDITIONS - PUSH-PULL FIXED BIAS

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	Ω
$V_{in}(W_{out}=50mW)$	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

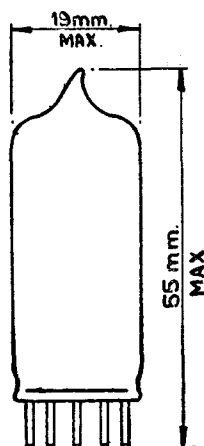
V_a max.	250	V
V_{g2} max.	250	V
W_a max.	4.0	W
W_{g2} max.	0.6	W
I_k max.	25	mA
V_{h-k} max.	50	V
R_{g1} max (cathode bias)	0.7	M Ω

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



B7G BASE

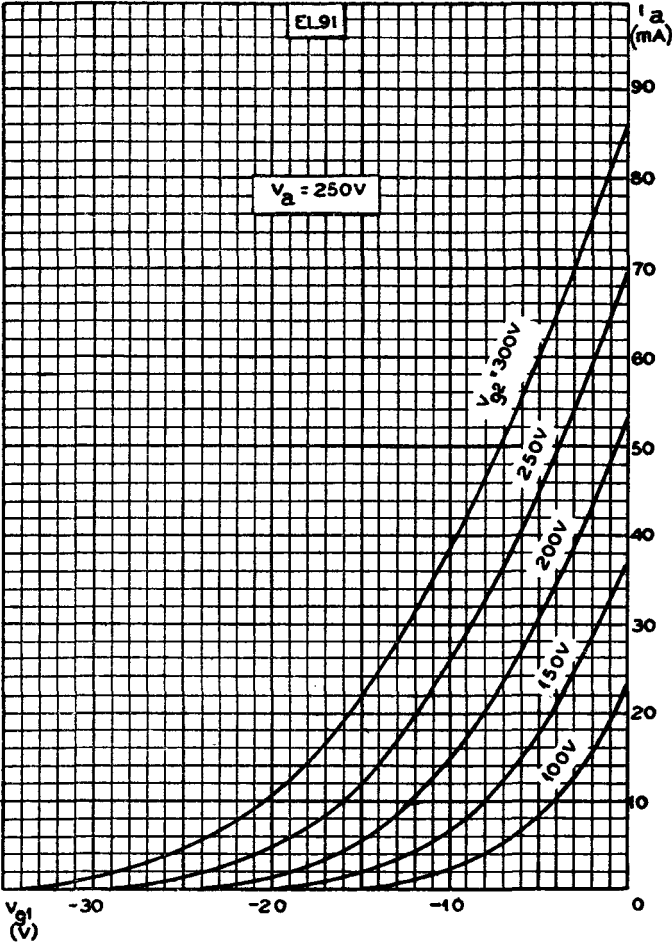
DIMENSIONS



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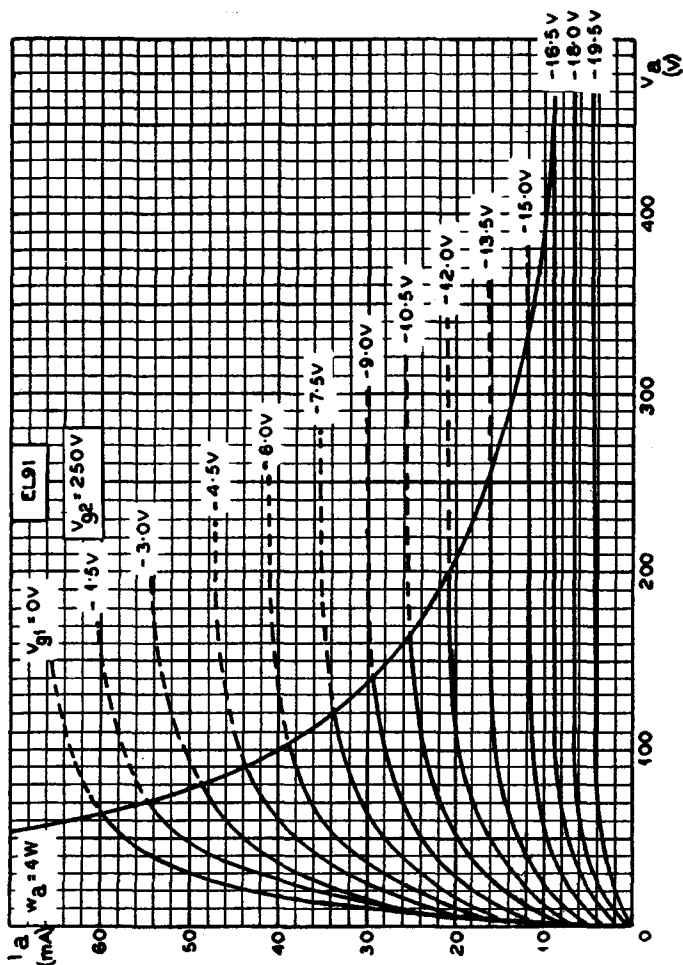
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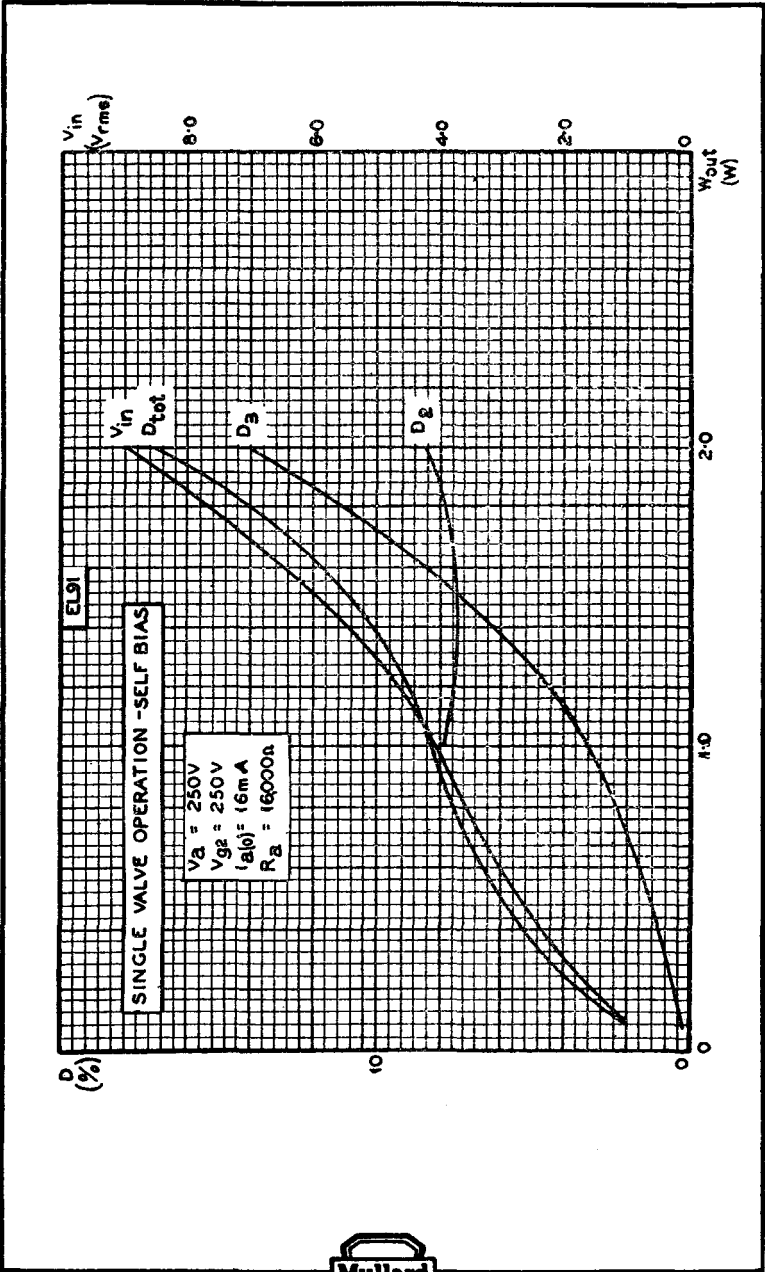
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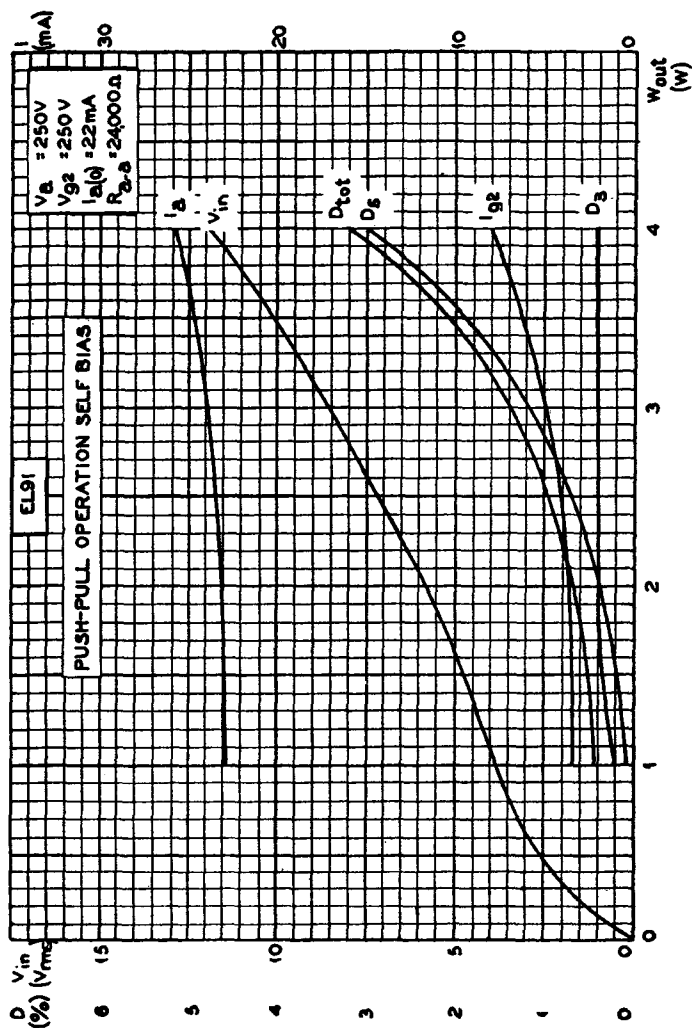
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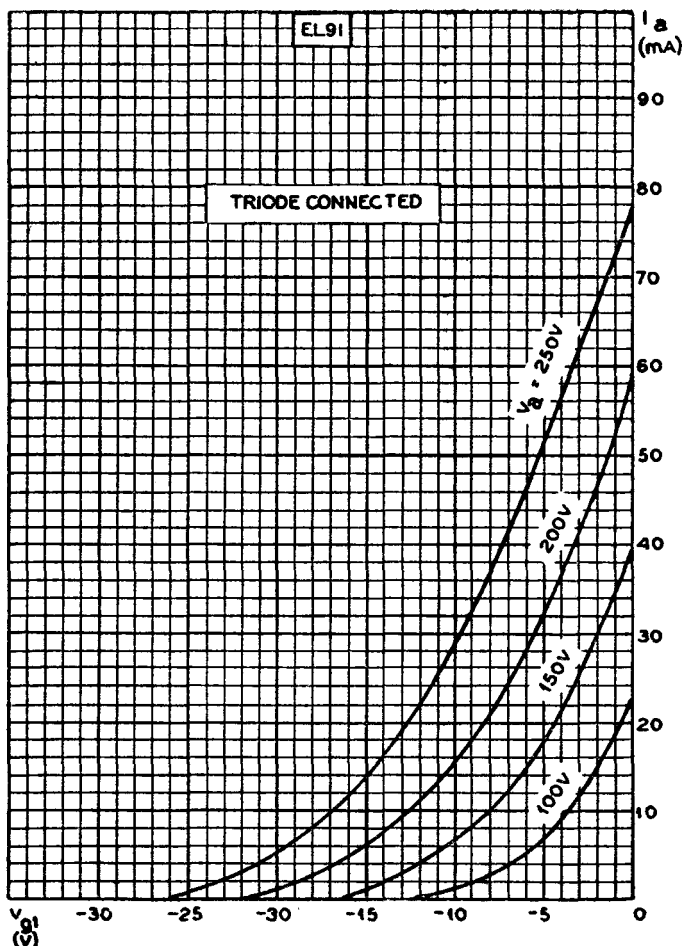
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