

SUBMINIATURE OUTPUT PENTODE

DL66

Subminiature output pentode suitable for use in hearing-aids. It has a filament current of 15 mA and is primarily intended for use with an H.T. battery supply of 22.5 volts.

FILAMENT

V_f	1.25	V
I_f	15	mA

MOUNTING POSITION

Any

Note—Direct soldered connections to the leads of this valve must be at least 5 mm. from the seal and any bending of the valve leads must be at least 1.5 mm. from the seal.

CAPACITANCES

C_{a-gl}	< 0.2	$\mu\mu F$
C_{in}	2.5	$\mu\mu F$
C_{out}	3.7	$\mu\mu F$

CHARACTERISTICS

V_a	22.5	V
V_{g2}	22.5	V
I_a	300	μA
I_{g2}	75	μA
V_{g1}	-1.4	V
g_m	350	$\mu A/V$
r_a	300	k Ω
μ_{gl-g2}	8.0	

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

V_b	22.5	V
V_{g2}	22.5	V
V_{g1}	-1.4	V
R_a	75	k Ω
$I_{a(o)}$	300	μA
$I_{g2(o)}$	75	μA
$V_{in(r.m.s.)}$	0.85	V
P_{out}	2.7	mW
D_{tot}	10	%

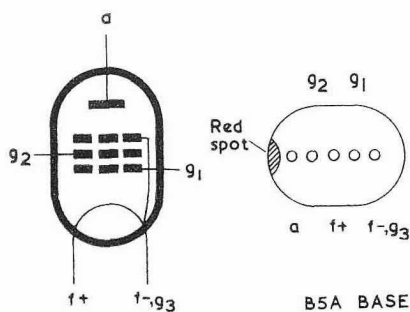
LIMITING VALUES

V_a max.	45	V
V_{g2} max.	45	V
I_k max.	1.0	mA

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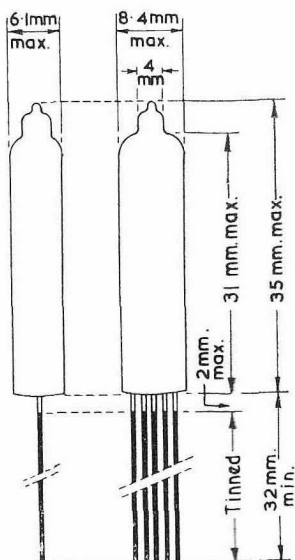
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B5A BASE

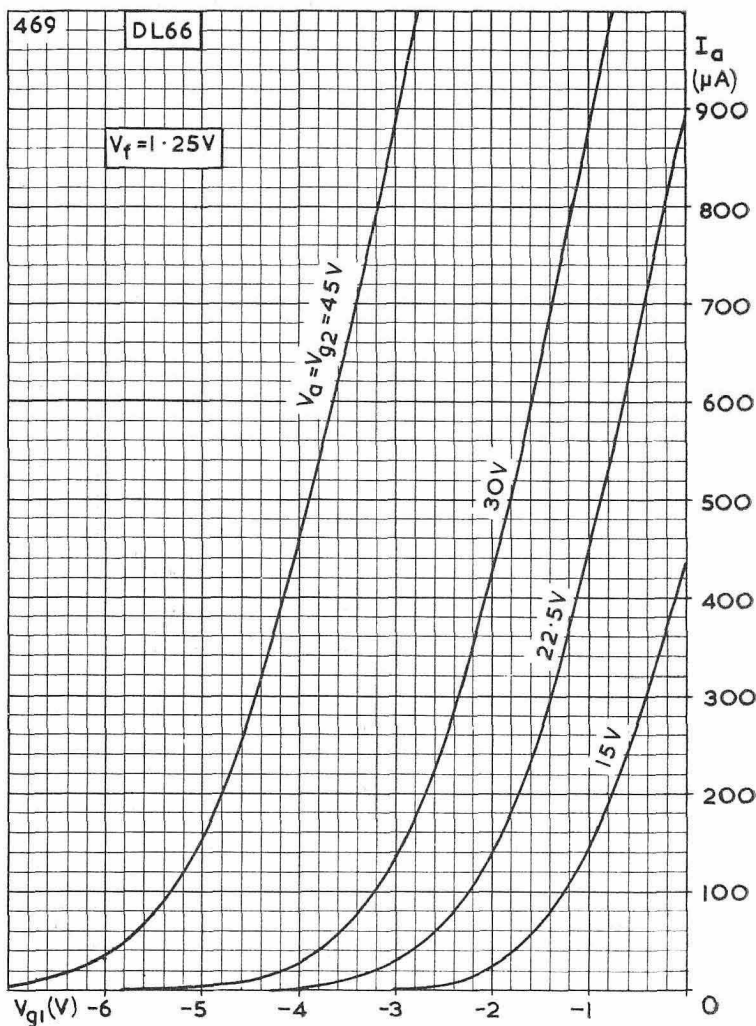
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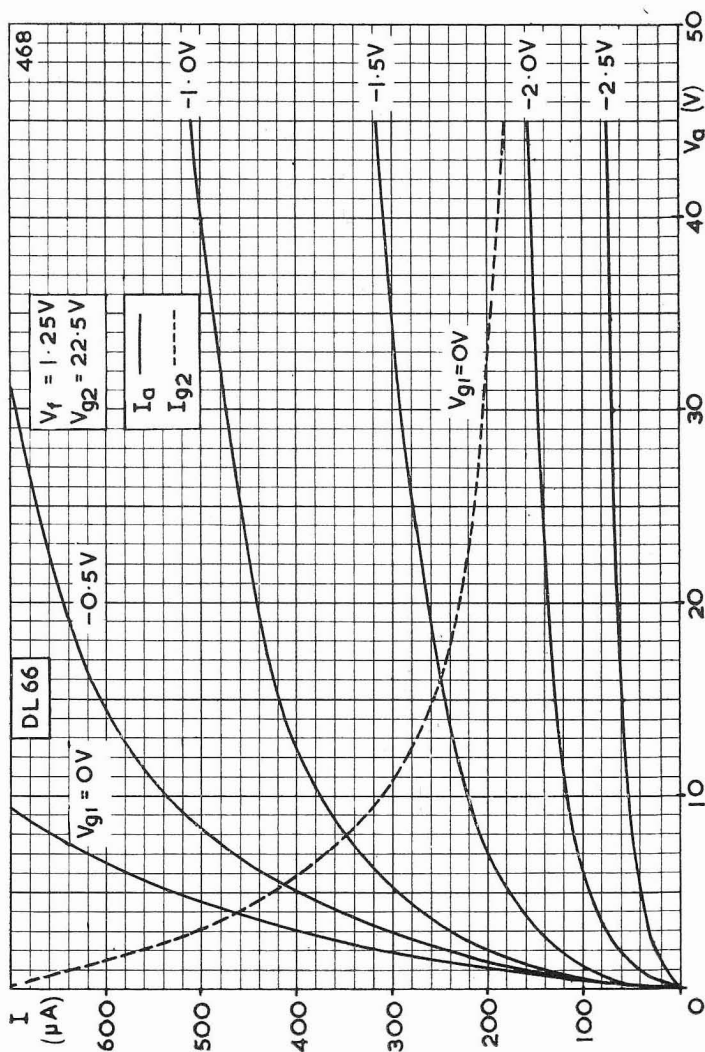


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID BIAS

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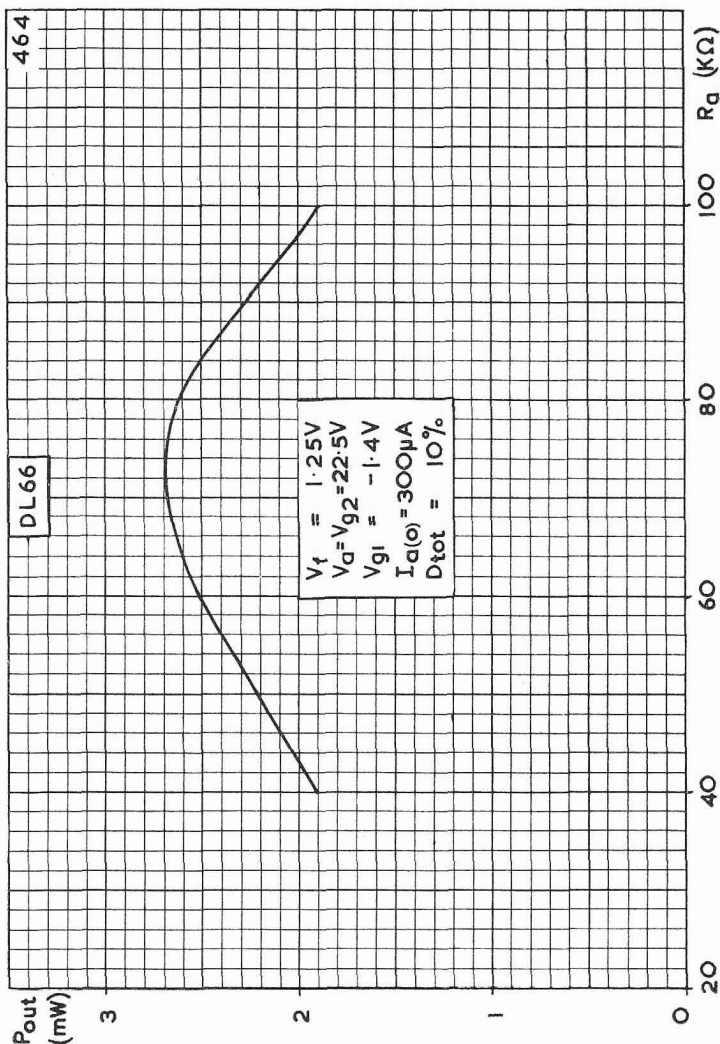


ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST
ANODE VOLTAGE FOR A SCREEN-GRID VOLTAGE OF 22.5 V

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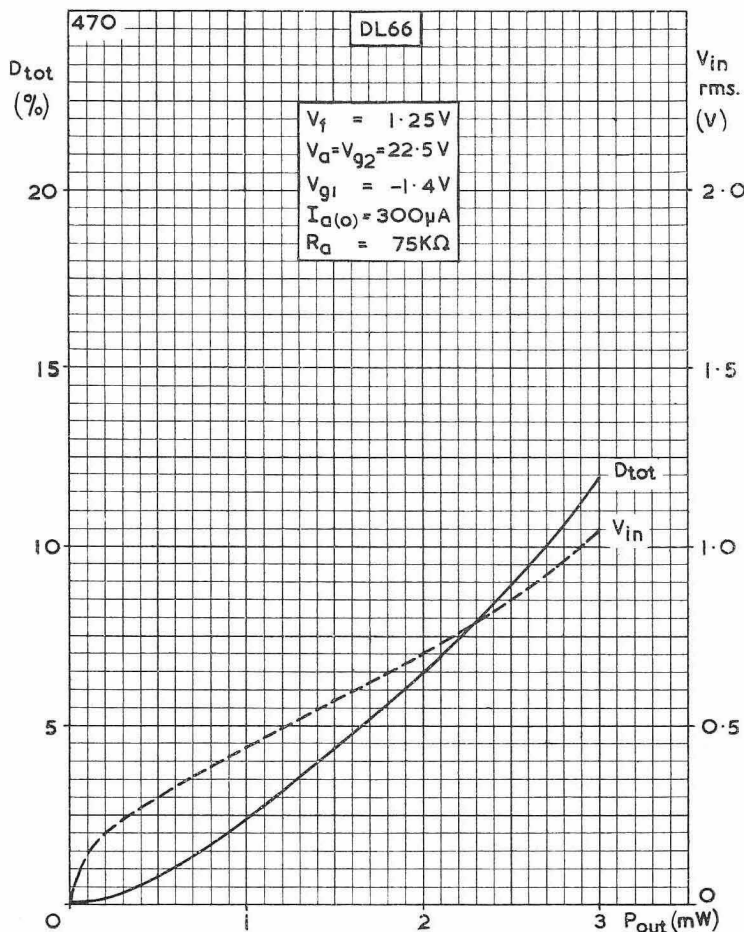


OUTPUT POWER PLOTTED AGAINST LOAD RESISTANCE FOR
ANODE AND SCREEN-GRID VOLTAGE OF 22.5 V

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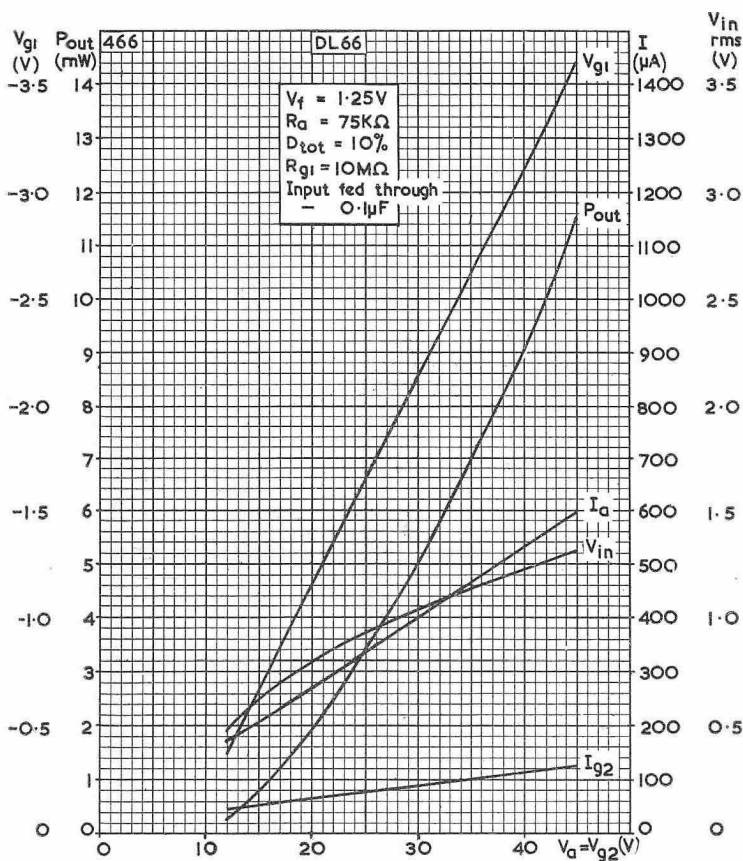


DISTORTION AND INPUT VOLTAGE PLOTTED AGAINST OUTPUT
POWER AT ANODE AND SCREEN-GRID VOLTAGES OF 22.5 V,
AND GRID VOLTAGE OF $-1.4V$

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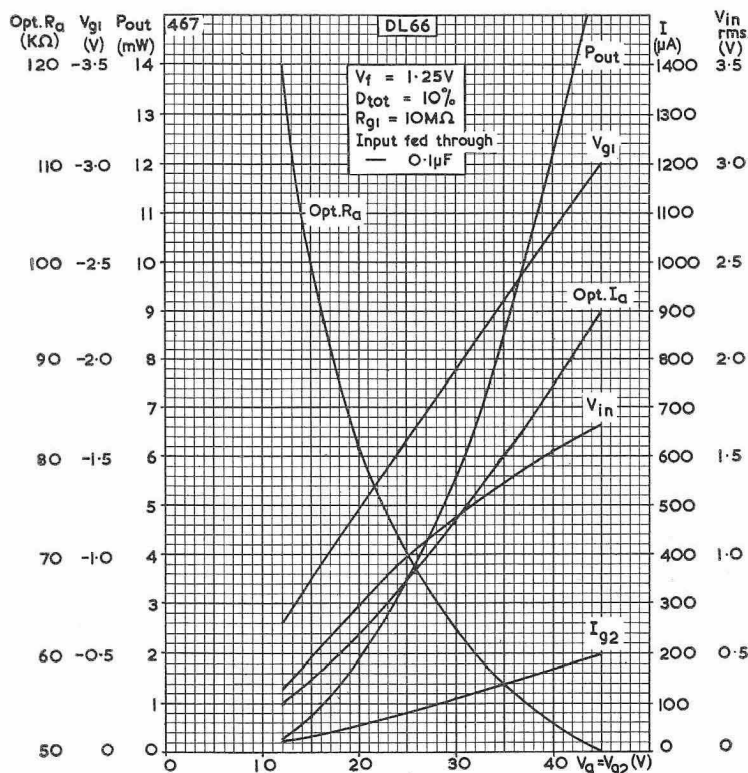
OUTPUT POWER, ANODE AND SCREEN-GRID CURRENTS,
CONTROL-GRID VOLTAGE AND INPUT VOLTAGE PLOTTED
AGAINST H.T. VOLTAGE, FOR THE RANGE $V_a = V_{g2} = 12$ TO 45 V

Note.— For these curves $R_a = 75$ k Ω throughout and the anode
current has been adjusted so that $\frac{V_a}{I_a} = 75$ k Ω .

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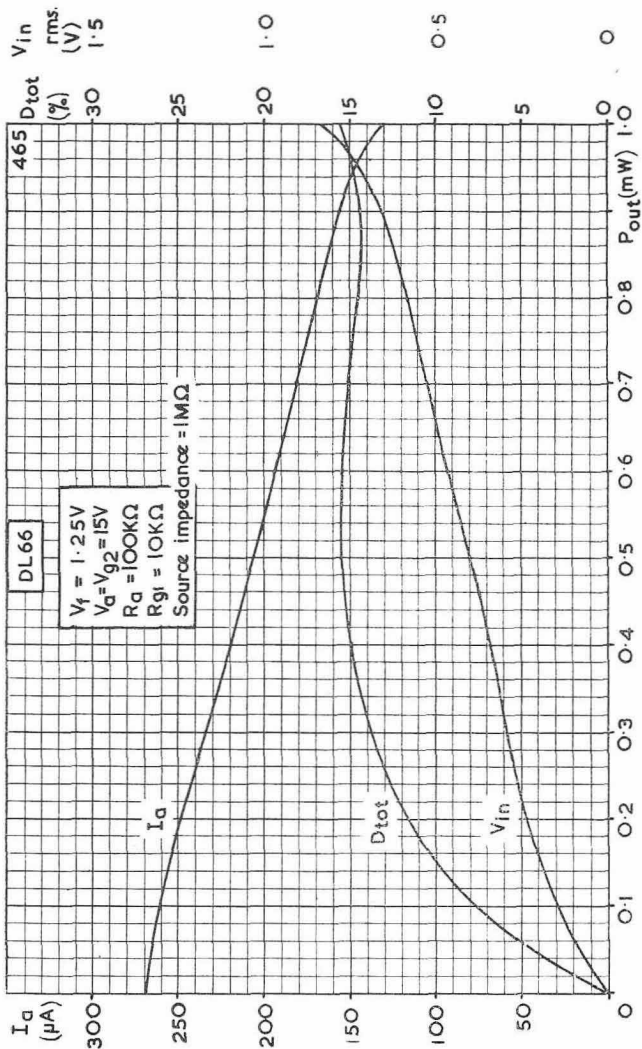
OUTPUT POWER, OPTIMUM ANODE CURRENT, SCREEN-GRID CURRENT, CONTROL-GRID VOLTAGE, INPUT VOLTAGE AND OPTIMUM LOAD RESISTANCE PLOTTED AGAINST H.T. VOLTAGE, FOR THE RANGE $V_a = V_{g2} = 12$ TO 45 V

Note.— For these curves the optimum value of load resistance for each value of H.T. voltage has been used.

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DISTORTION, INPUT VOLTAGE AND ANODE CURRENT, PLOTTED
AGAINST OUTPUT POWER FOR ANODE AND SCREEN-GRID
VOLTAGE OF 15V AND WITH GRID CURRENT BIASING

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