

SUB-MINIATURE OUTPUT PENTODE

DL71

Sub-miniature output pentode with wire-in connections
for use in Hearing Aids.

FILAMENT

V_f	1.25	V
I_f	25	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 (Measured without an external screen)

C_{in}	2.6	μF
C_{out}	3.6	μF
C_{a-g}	<0.5	μF

CHARACTERISTICS

V_b	45	V
V_{g2}	45	V
V_{g1}	-1.25	V
I_a	600	μA
I_{g2}	150	μA
g_m	550	$\mu A/V$
r_a	0.35	$M \Omega$
μ_{g1-g2}	15	%

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER (Screen fed direct from H.T. line)

V_b	45	V
$I_{a(o)}$	590	μA
$I_{g2(o)}$	150	μA
R_k	1.5	$k \Omega$
V_{g1}	-1.25	V
R_a	100	$k \Omega$
V_{in} (r.m.s.)	0.88	V
P_{out}	6.3	mW
D_{tot}	10	%

Note—For the above condition the signal source impedance consisted of a $0.47 M \Omega$ resistor in series with a capacitor of $0.1 \mu F$, the combination being shunted by a $10 M \Omega$ resistor.

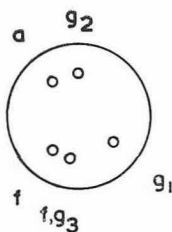
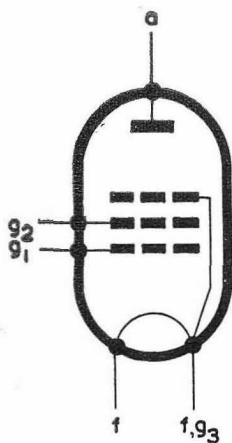
LIMITING VALUES

V_a max.	45	V
V_{g2} max.	45	V
I_k max.	1.7	mA

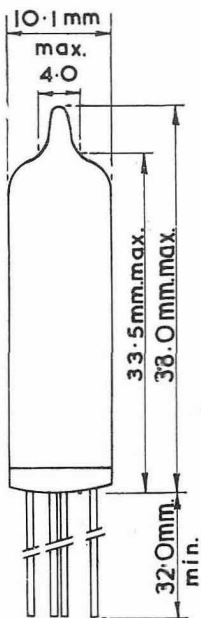
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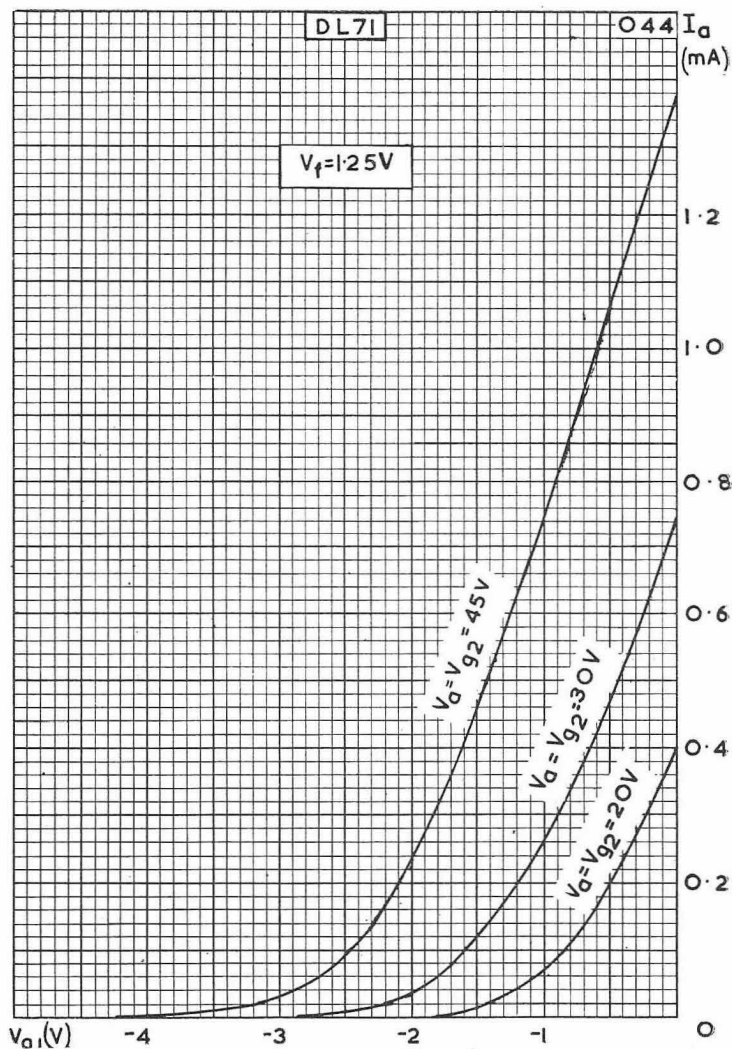
A spot of red
lacquer is placed on the
base next to the anode
lead.



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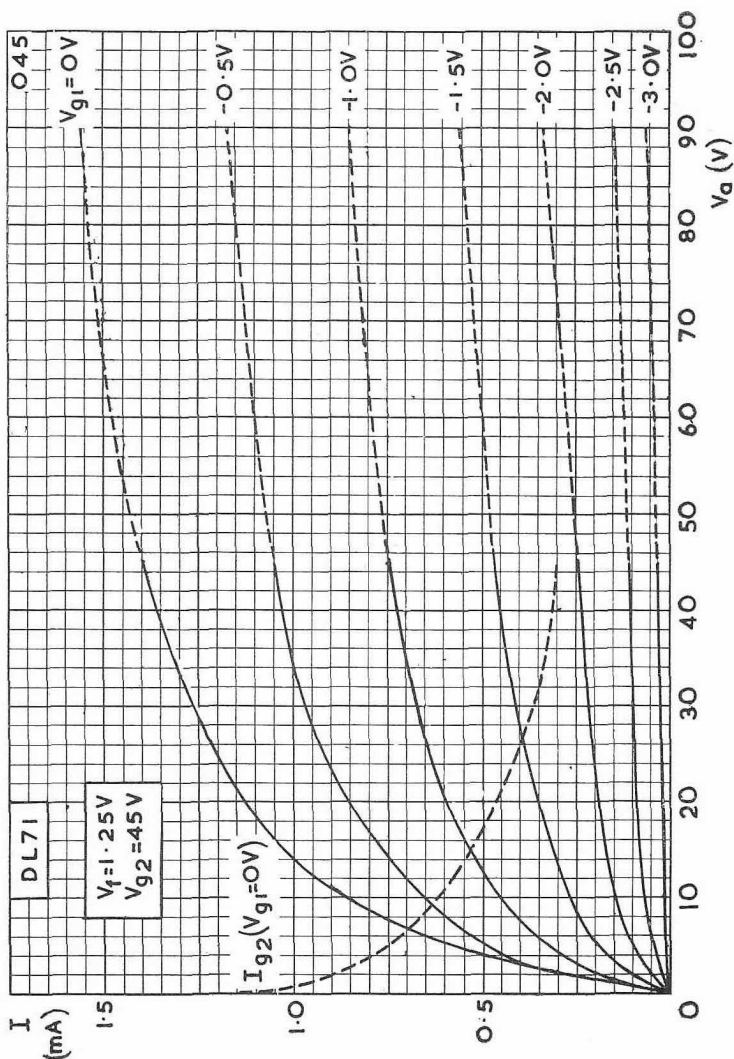


ANODE CURRENT PLOTTED AGAINST
CONTROL GRID VOLTAGE

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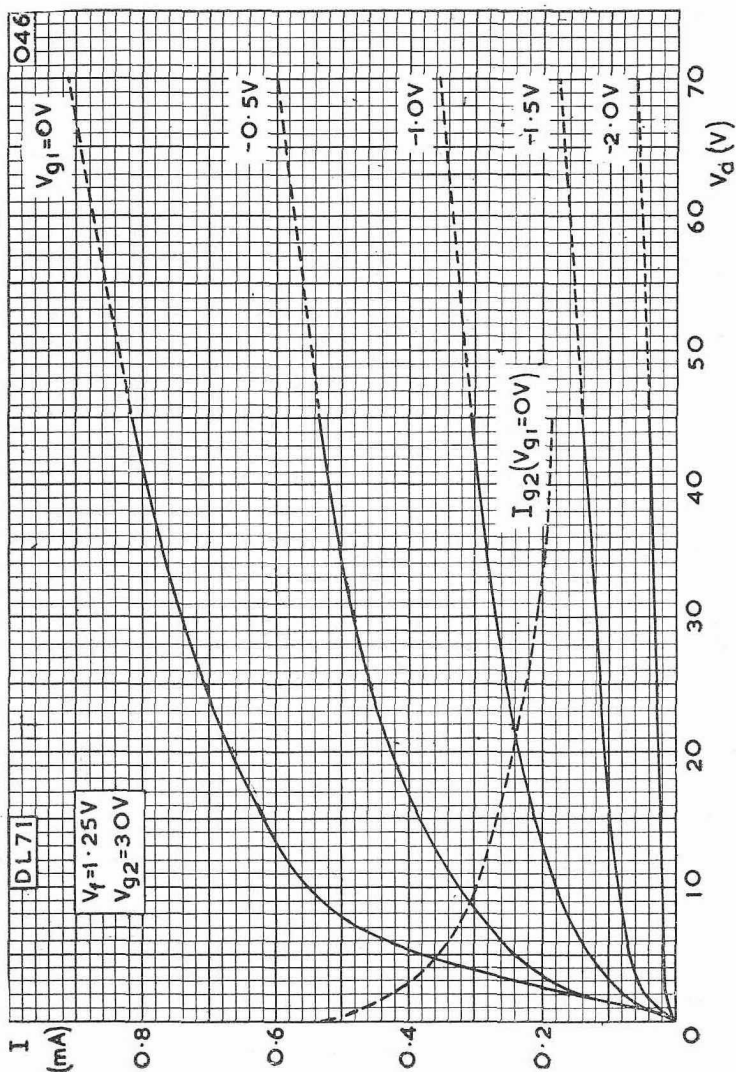


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
(SCREEN VOLTAGE = 45 V)

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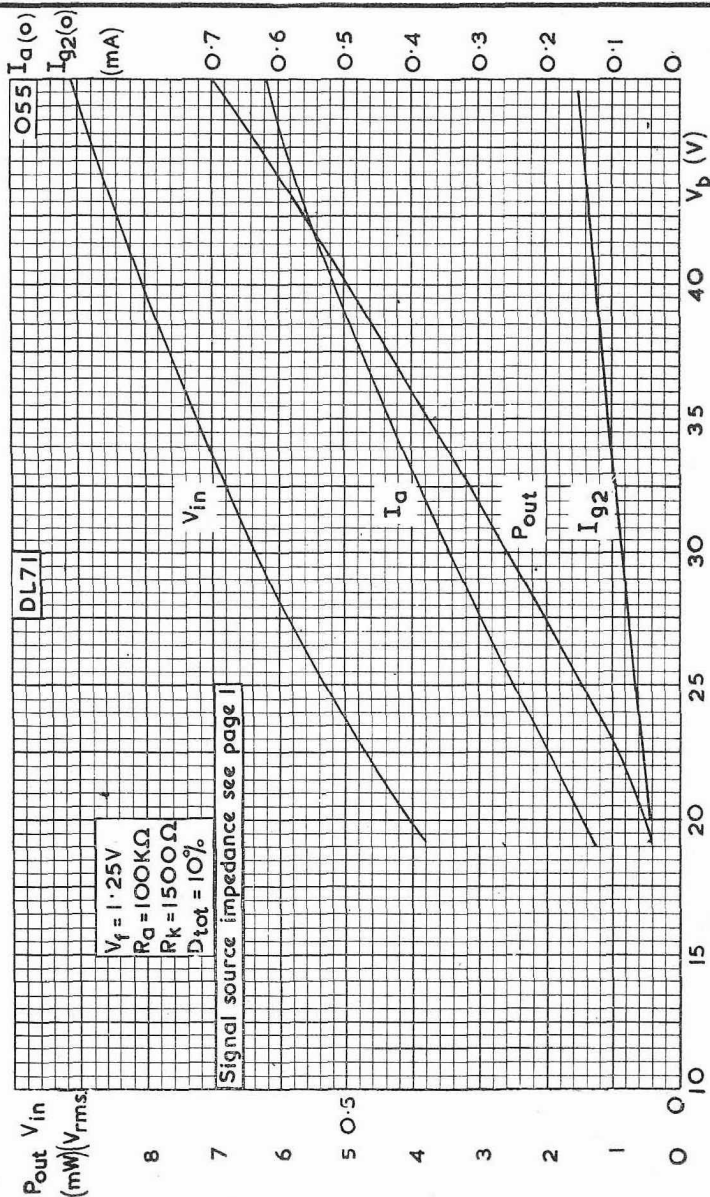


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
(SCREEN VOLTAGE = 30 V)

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INPUT VOLTAGE, ANODE CURRENT, SCREEN CURRENT AND
OUTPUT POWER PLOTTED AGAINST H.T. VOLTAGE