SUB-MINIATURE OUTPUT PENTODE

DL72

A 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

CAPACITANCES (Measured without external screen)

C_{in}	1.6	μμF
C_{out}	3.6	μμF
C_{a-g}	< 0.5	μμF

CHARACTERISTICS

V_a	45	V
V_{g2}	45	V
V_{g1}	−4.5	V
I_a	1.25	mA
I_{g2}	0.4	mA
g_m	500	μA/V
r_a	0.17	MΩ

OPERATING CONDITIONS – SINGLE VALVE WITH SELF BIAS

*V_b	45	V
R_k	2.7	KΩ
V_{g1}	−4.16	V
I_a	1.16	mA
I_{g2}	0.35	mA
R_a	30	KΩ
V_{in} (D_{tot} = 10%)	2.65	$V_{r.m.s.}$
P_{out} (D_{tot} = 10%)	19.5	mW

* Screen fed direct from H.T. line

DL72

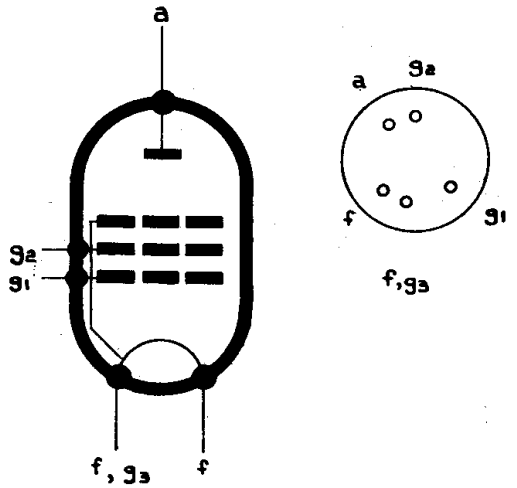
SUB-MINIATURE OUTPUT PENTODE

A sub-miniature output pentode with wire-in connections for use in hearing aids

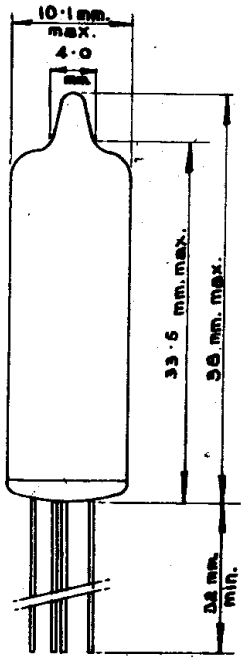
LIMITING VALUES

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

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



DIMENSIONS



NOTE: A spot of green lacquer is placed on the bulb next to the anode lead.

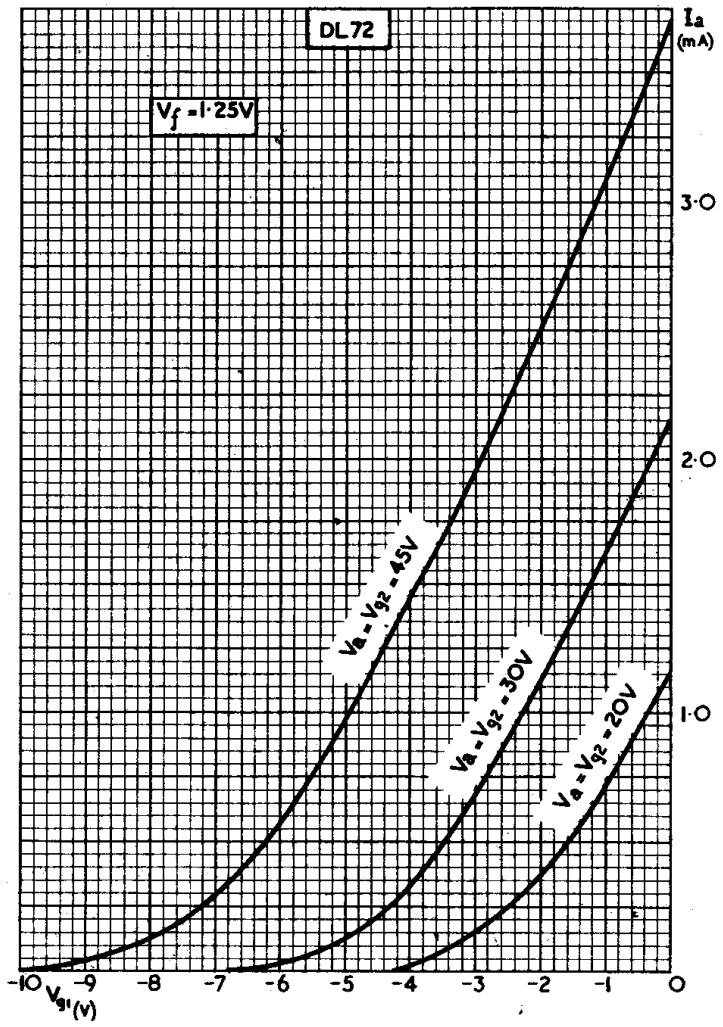
IMPORTANT NOTE

Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1·5mm from the seal.

SUB-MINIATURE OUTPUT PENTODE

DL72

A sub-miniature output pentode with wire-in connections for use in hearing aids

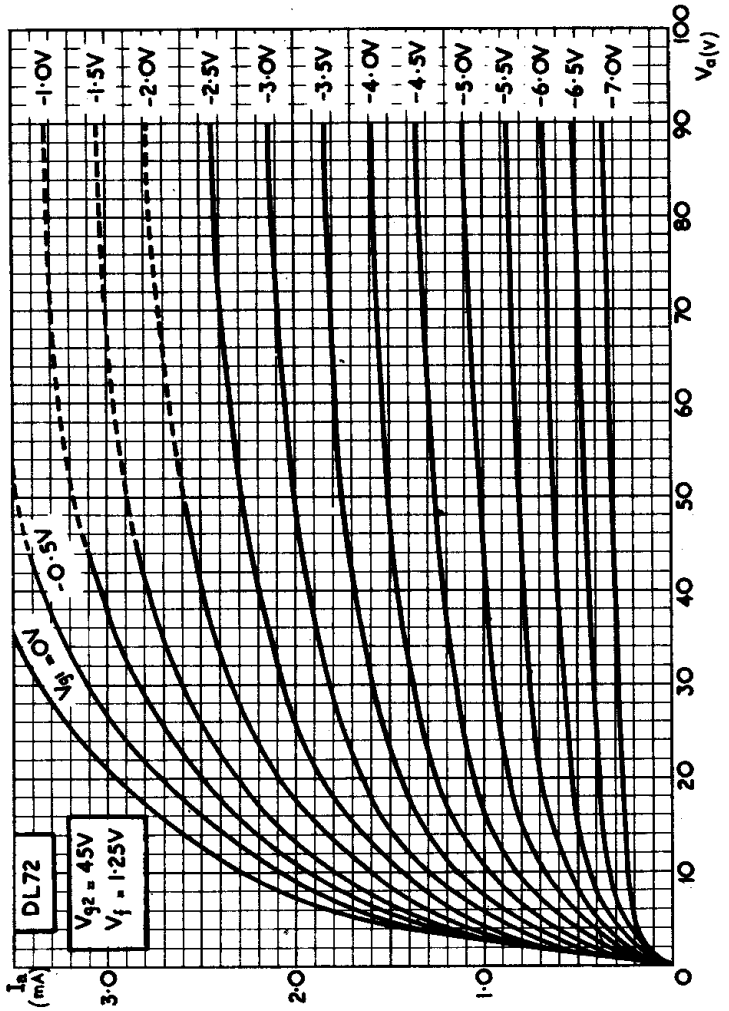


ANODE CURRENT PLOTTED AGAINST CONTROL GRID VOLTAGE

DL72

SUB-MINIATURE OUTPUT PENTODE

A sub-miniature output pentode with wire-in connections for use in hearing aids

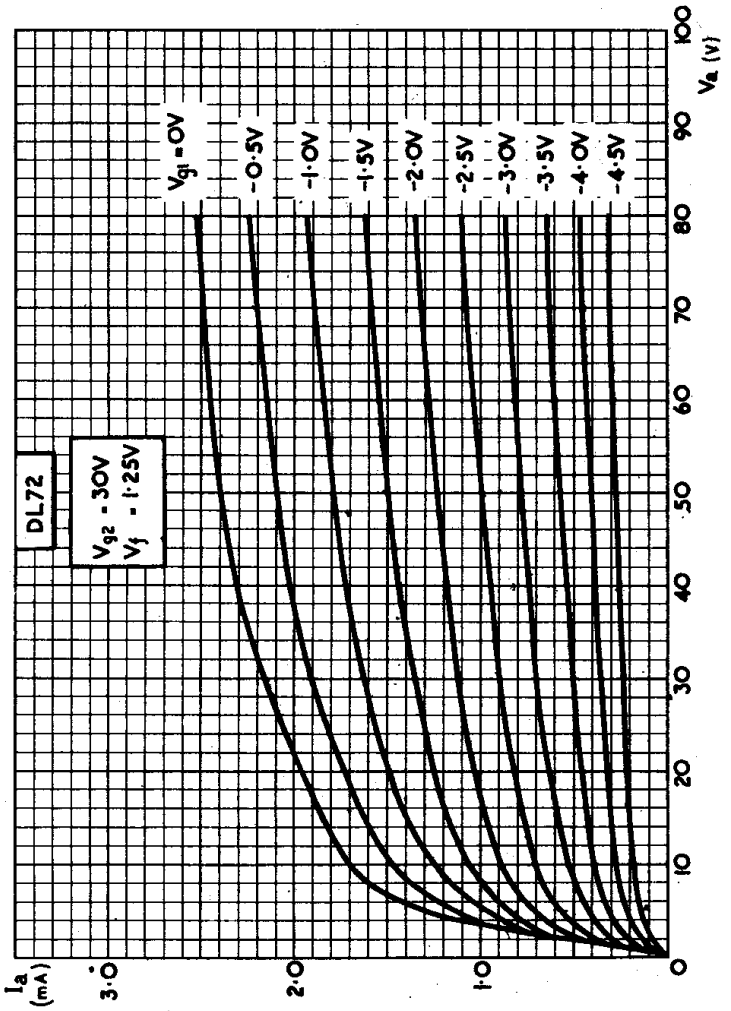


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
(at V_{g2} = 45 V)

SUB-MINIATURE OUTPUT PENTODE

DL72

A sub-miniature output pentode with wire-in connections for use in hearing aids

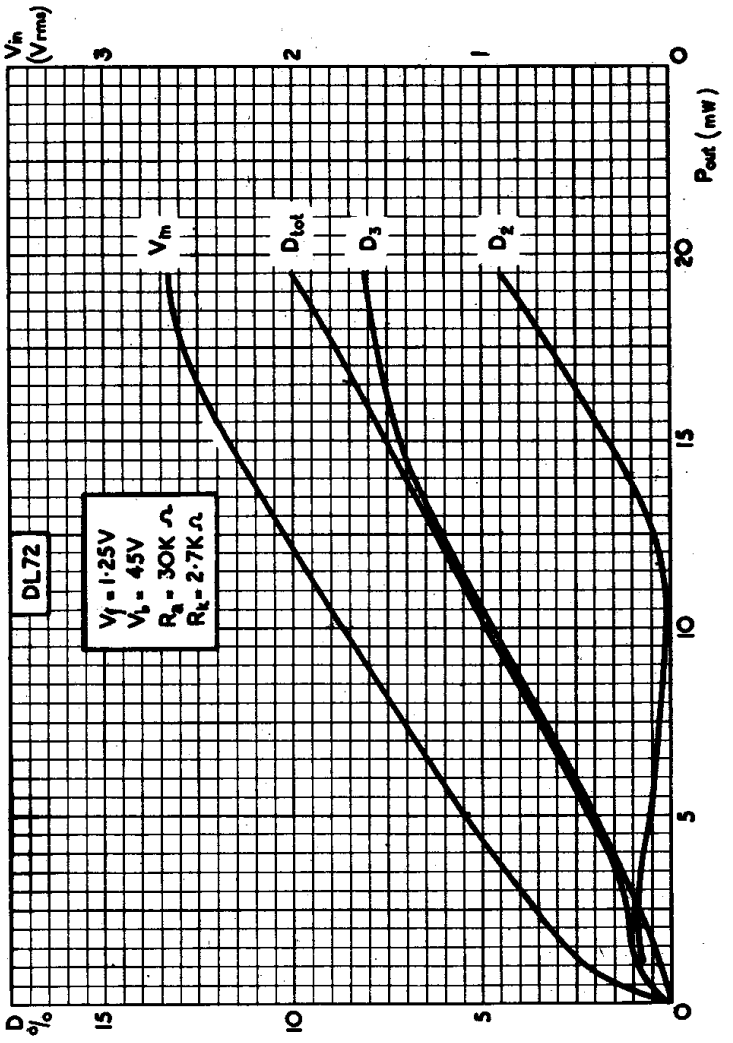


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
(at V_{g2} = 30 V)

DL72

SUB-MINIATURE OUTPUT PENTODE

A sub-miniature output pentode with wire-in connections for use in hearing aids

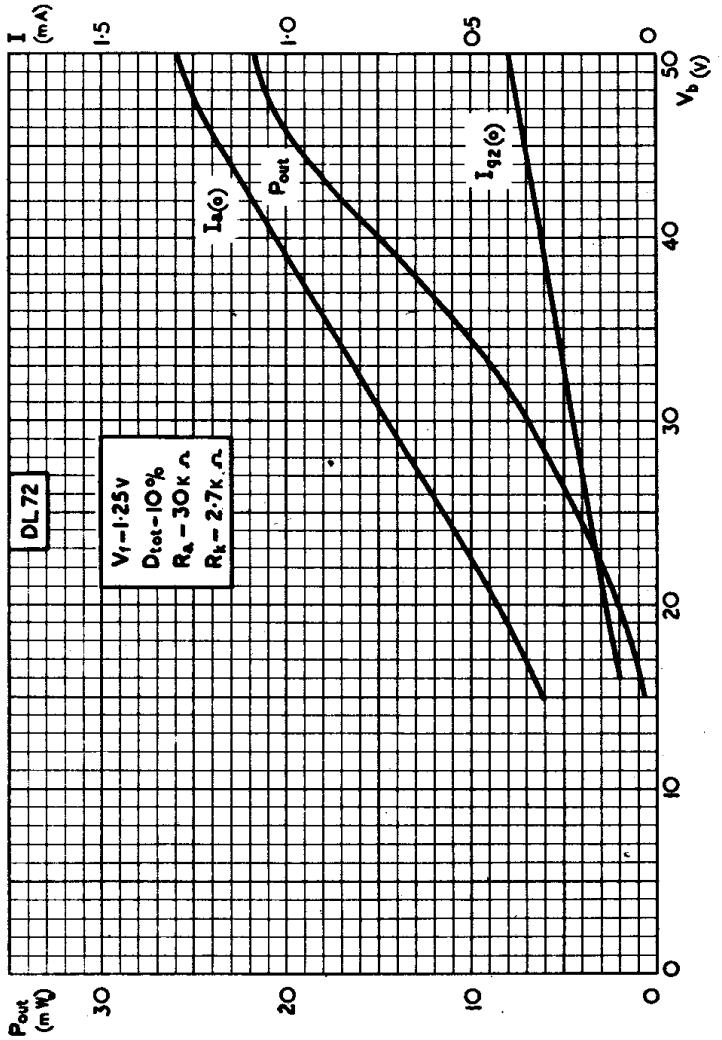


OUTPUT POWER PLOTTED AGAINST SIGNAL INPUT AND DISTORTION

SUB-MINIATURE OUTPUT PENTODE

DL72

A sub-miniature output pentode with wire-in connections for use in hearing aids



OUTPUT POWER AND ANODE CURRENT PLOTTED AGAINST H.T. BATTERY VOLTAGE