

SUBMINIATURE R.F. PENTODE

DF6I

R.F. Pentode for use in battery operated receivers.

FILAMENT

Suitable for d.c. operation only

V_f	1.25	V
I_f	25	mA

CAPACITANCES

C_{a-g_1}	< 0.01	pF
C_{in}	3.1	pF
C_{out}	3.6	pF

CHARACTERISTICS

V_a	45	67.5	V
V_{g2}	45	67.5	V
V_{g1}	0	0	V
I_a	0.8	1.7	mA
I_{g2}	200	450	μA
g_m	750	950	$\mu A/V$
r_a	1.4	1.6	M Ω
μ_{g1-g_2}	21	21	
V_{g1} (for 100:1 reduction in g_m)	-2.6	-4.0	V
R_{in} ($f=50Mc/s$)	—	57	k Ω
R_{eq}	—	10	k Ω

OPERATING CONDITIONS AS A FREQUENCY CHANGER

V_a	45	67.5	V
V_{g2}	45	67.5	V
R_{g1-f}	100	100	k Ω
I_a	0.6	1.35	mA
I_{g2}	140	400	μA
$V_{osc(r.m.s.)}$	3.0	4.0	V
I_{g1}	30	30	μA
g_c	220	290	$\mu A/V$
g_m (eff)	300	450	$\mu A/V$
r_a	1.4	2.0	M Ω

LIMITING VALUES

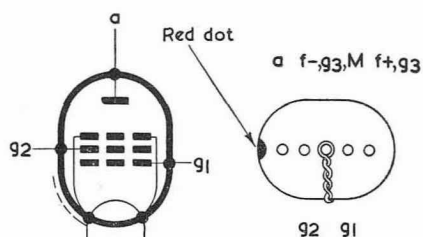
V_a max.	90	V
$V_{g2(b)}$ max.	90	V
V_{g2} max.	67.5	V
I_k max.	2.5	mA
$V_{g1}(I_{g1}=+0.3\mu A)$	> 0	V

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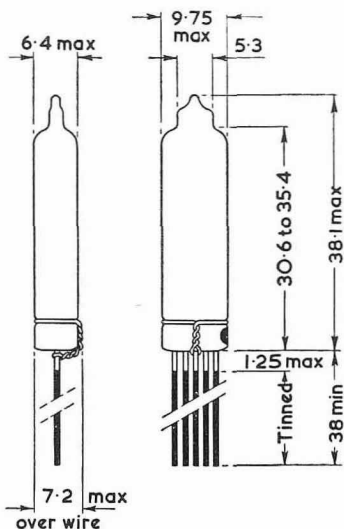
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f-,g3,M f+,g3

B5G/F Base

g3 consists of two plates one being connected to lead 3 and the other to lead 5

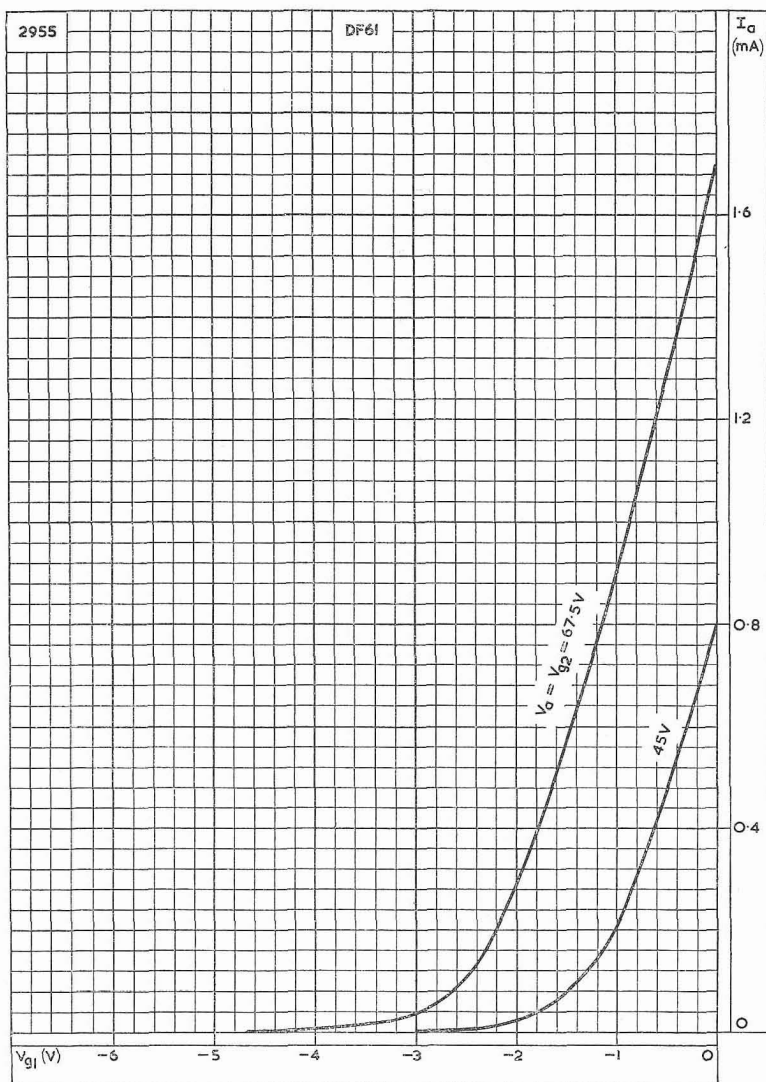


All dimensions in mm

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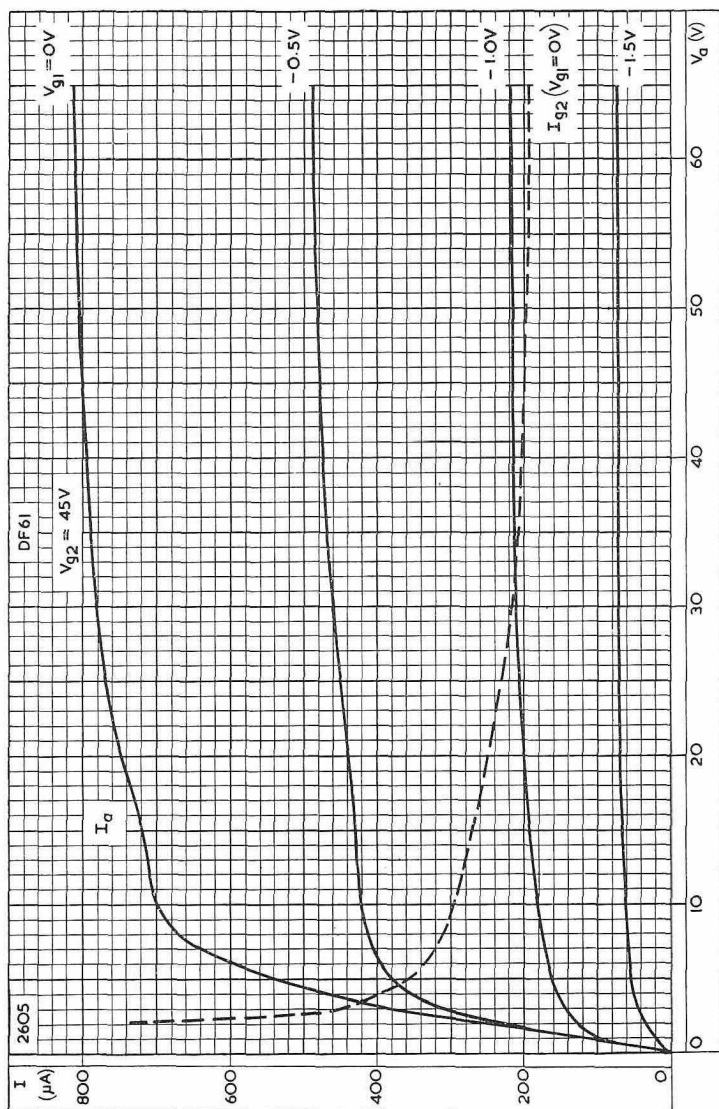


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

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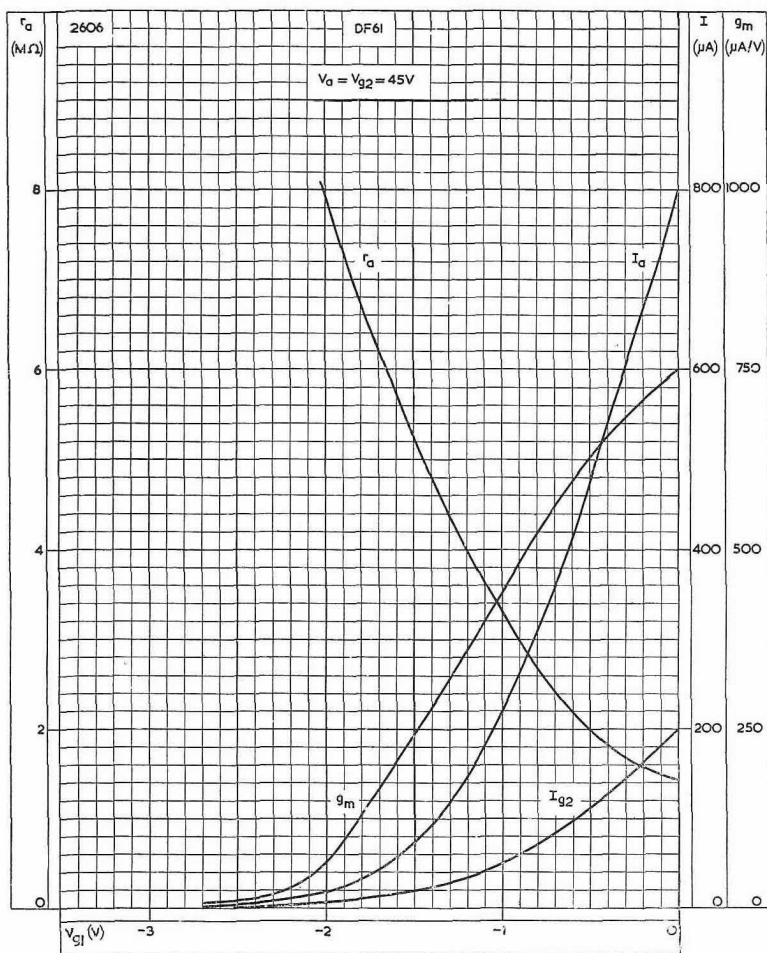


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE. $V_a = 45V$

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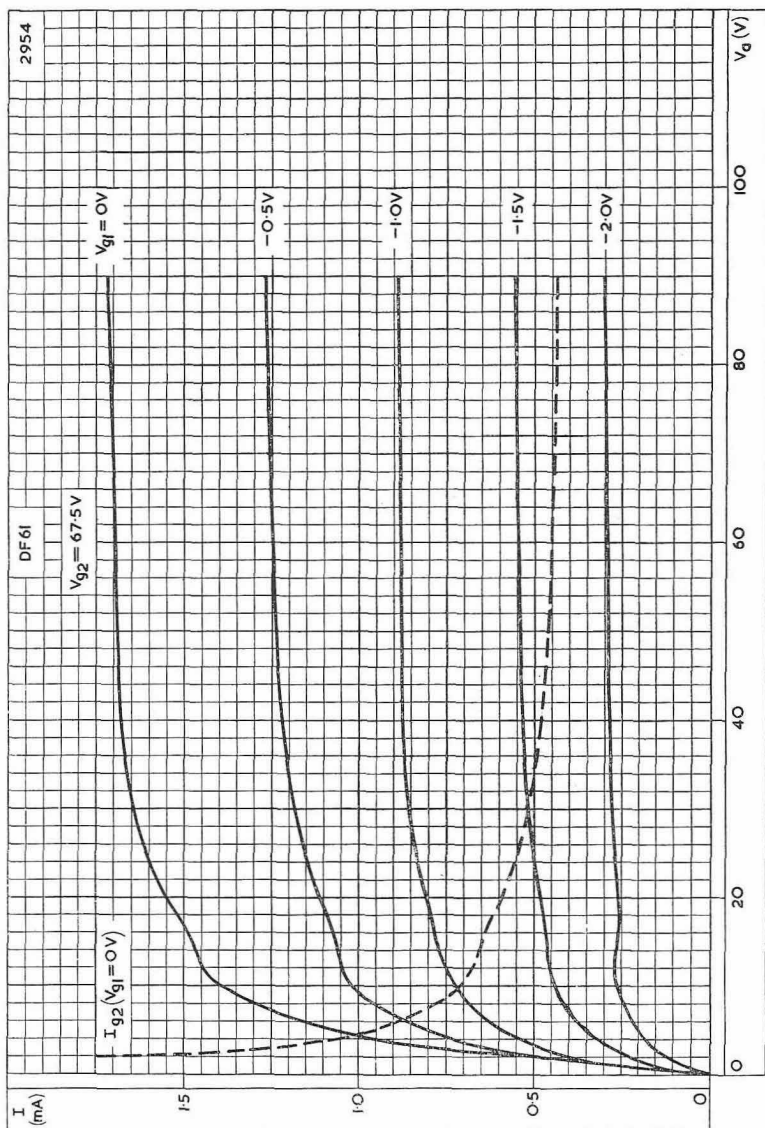
ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
AND ANODE RESISTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

$$V_a = V_{g2} = 45V$$

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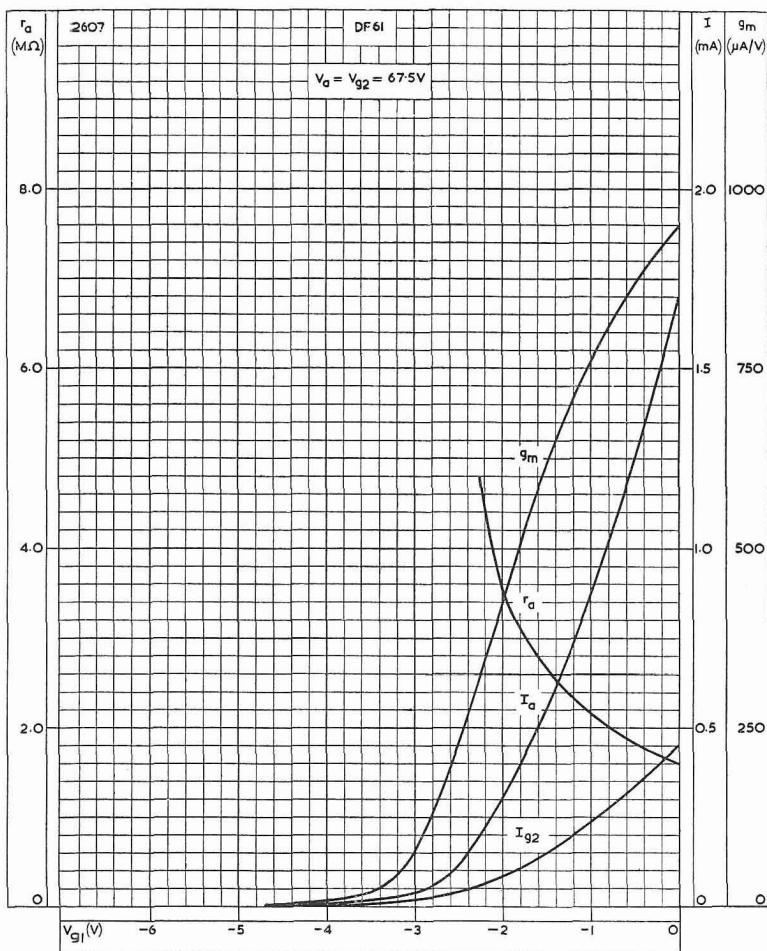


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE $V_{g2}=67.5$ V

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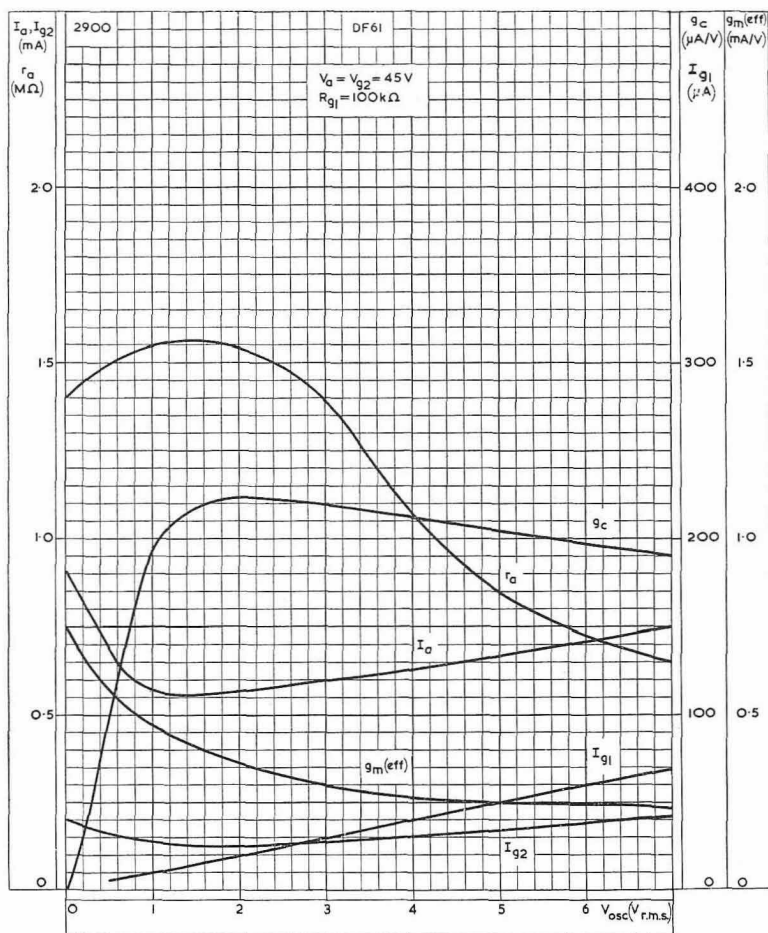
ANODE CURRENT SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
AND ANODE RESISTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

$$V_a = V_{g2} = 67.5V$$

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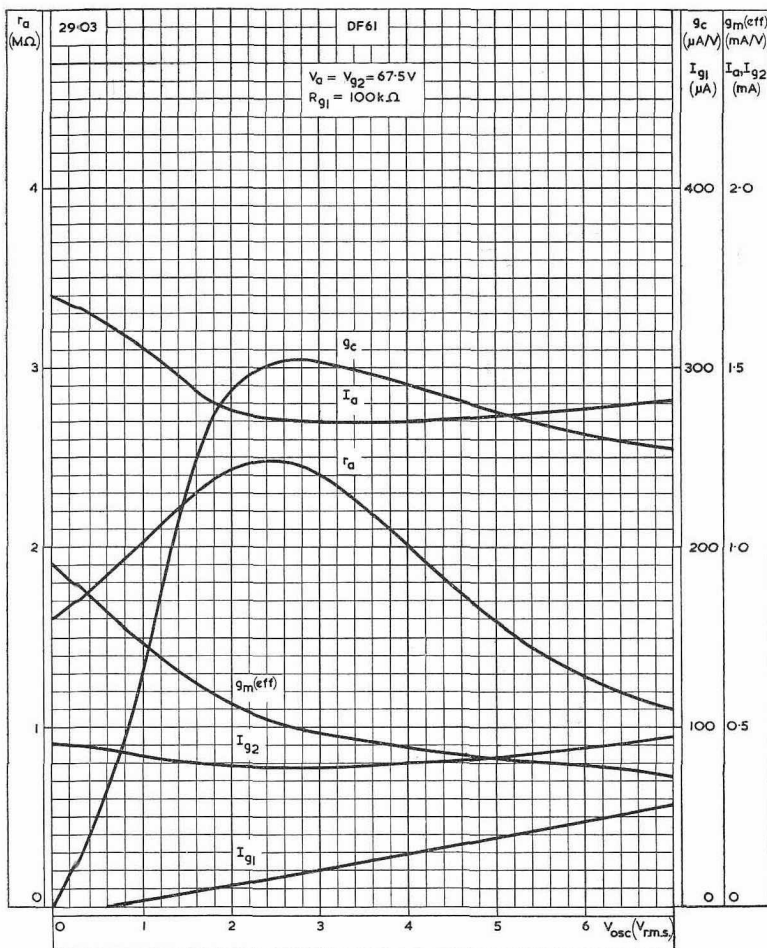


PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 45V$

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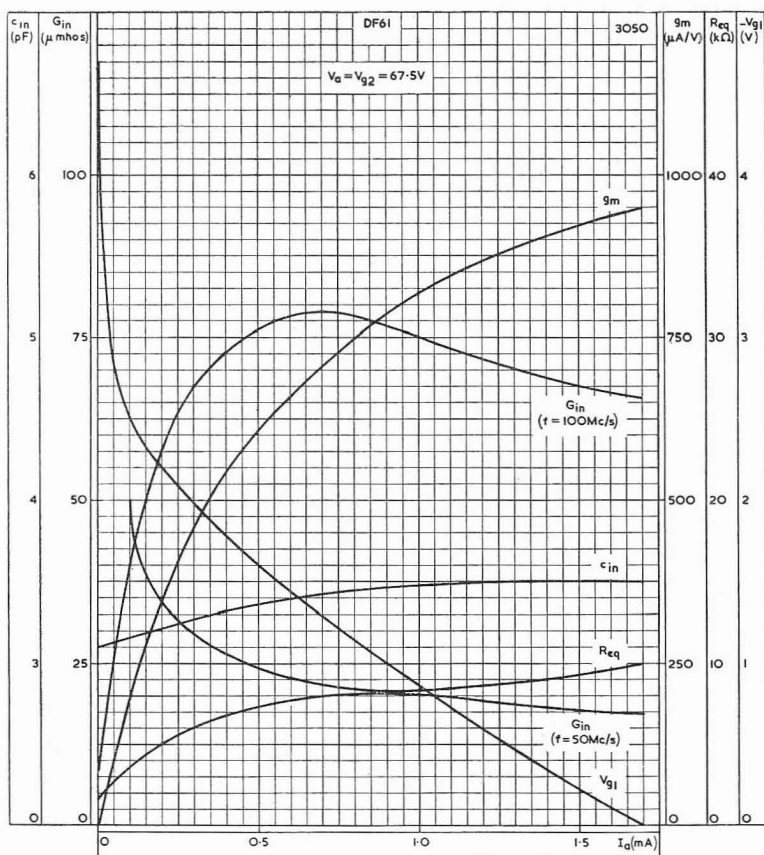
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PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 67.5V$

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INPUT CONDUCTANCE, EQUIVALENT NOISE RESISTANCE, INPUT CAPACITY, CONTROL-GRID VOLTAGE AND MUTUAL CONDUCTANCE PLOTTED AGAINST ANODE CURRENT