SUBMINIATURE R.F. PENTODE

DF61

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-g1}	<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	μA/V
r_a	1.4	1.6	MΩ
μ_{g1-g2}	21	21	
V_{g1} (for 100:1 reduction in g_m)	−2.6	−4.0	V
R_{in} (f=50Mc/s)	—	57	kΩ
R_{eq}	—	10	kΩ

OPERATING CONDITIONS AS A FREQUENCY CHANGER

V_a	45	67.5	V
V_{g2}	45	67.5	V
R_{g1-f}	100	100	kΩ
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	μA/V
g_m(eff)	300	450	μA/V
r_a	1.4	2.0	MΩ

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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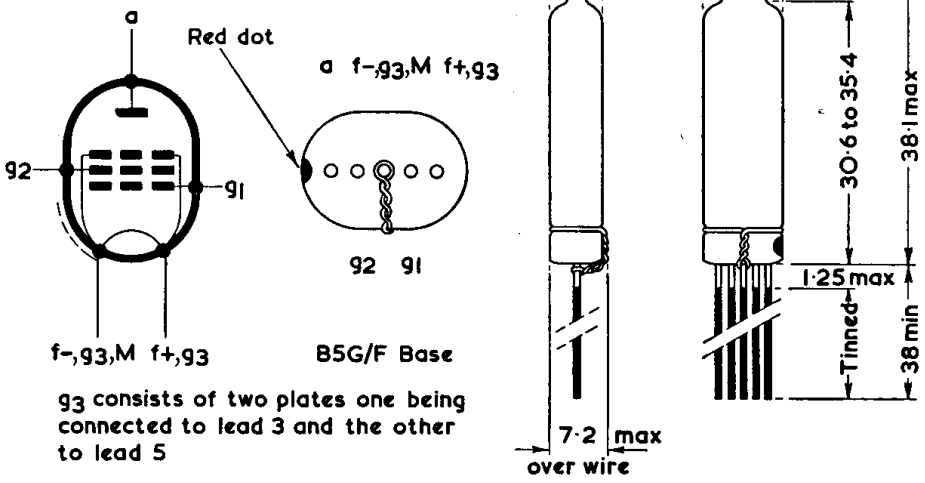

All dimensions in mm

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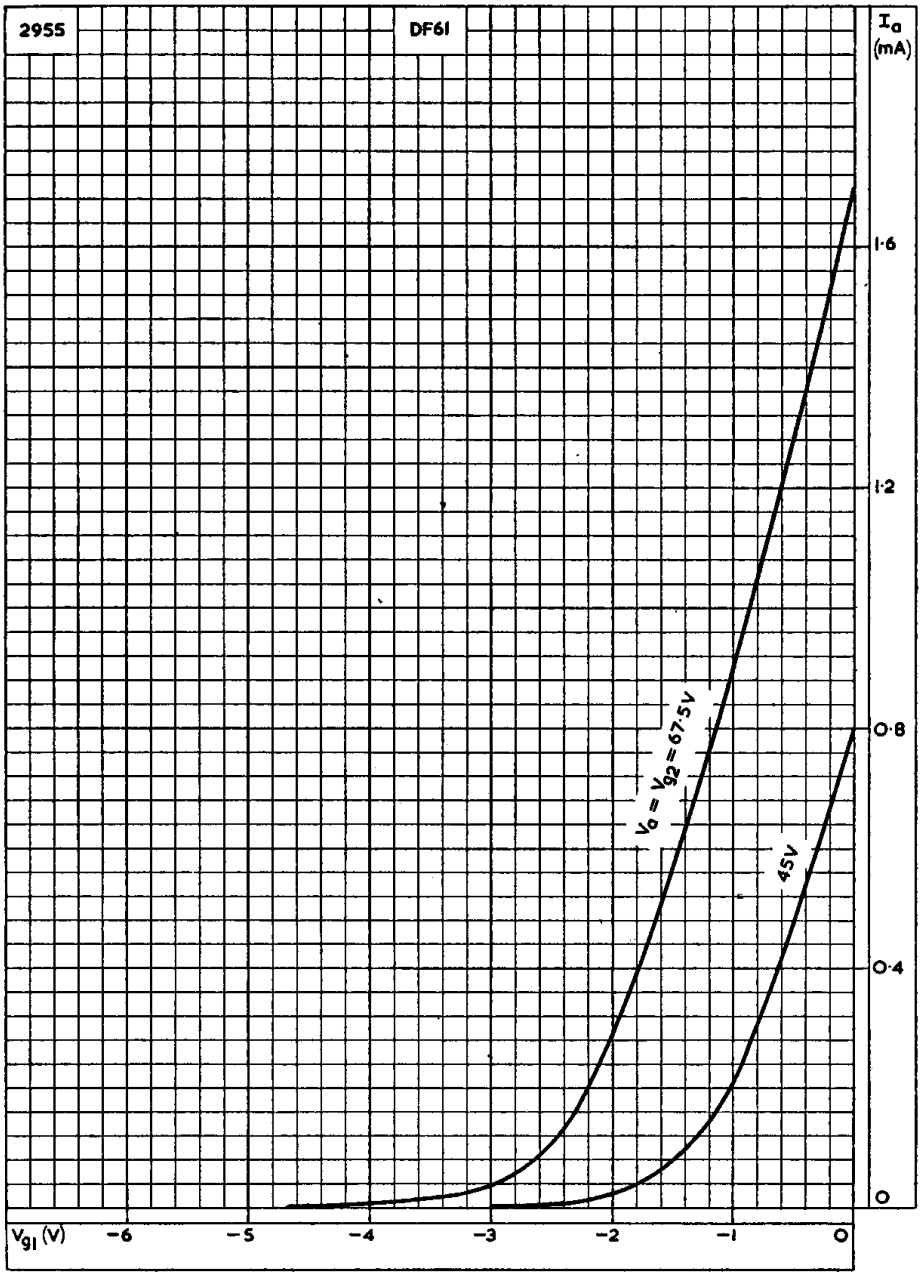

ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

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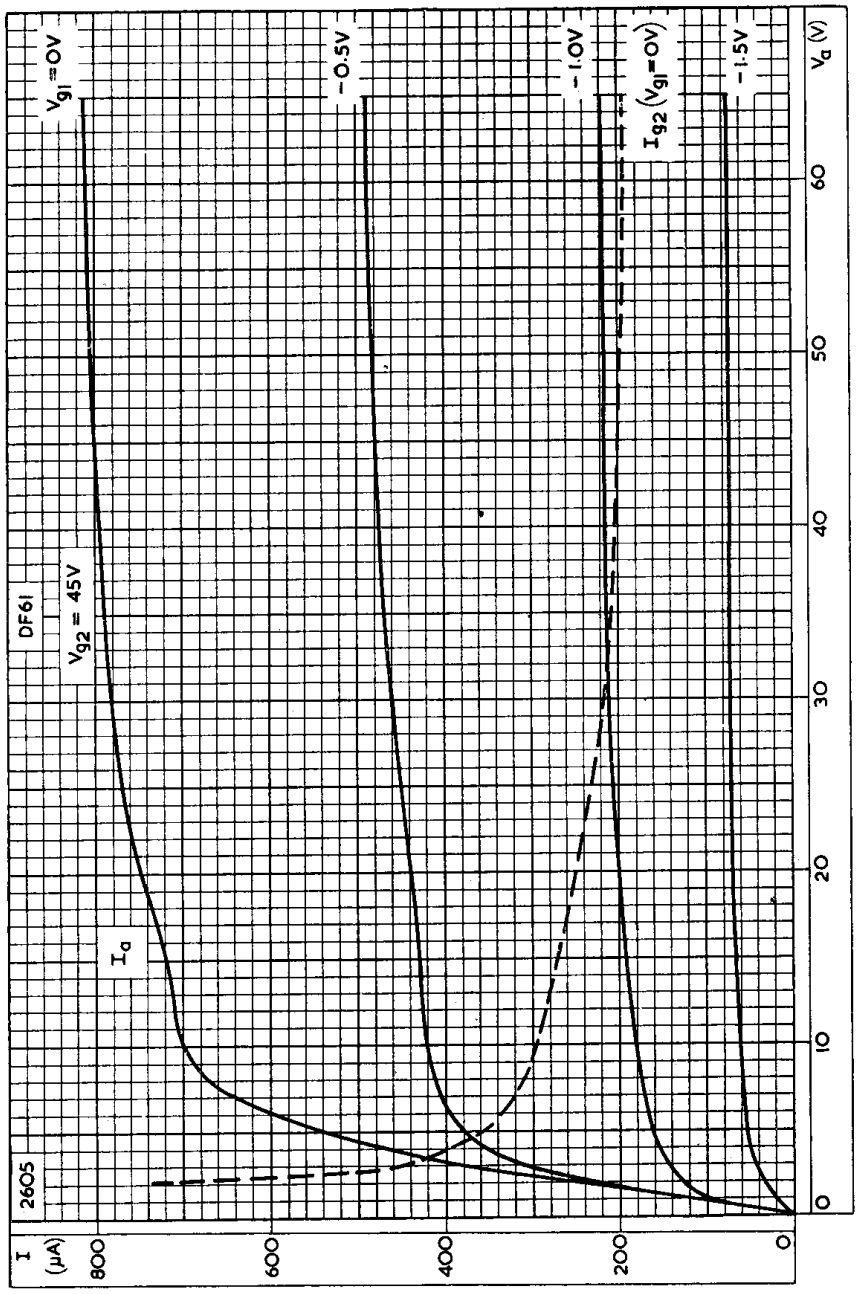

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE. V_a=45V

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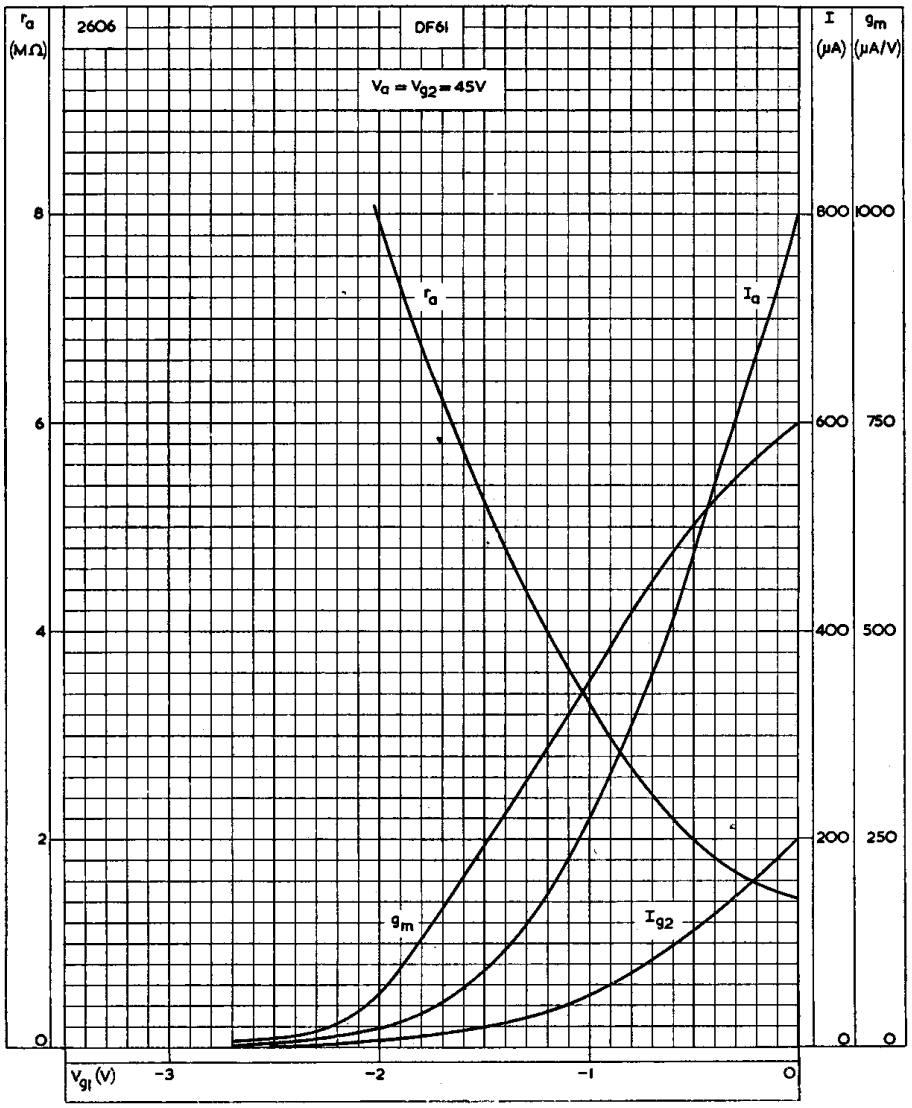


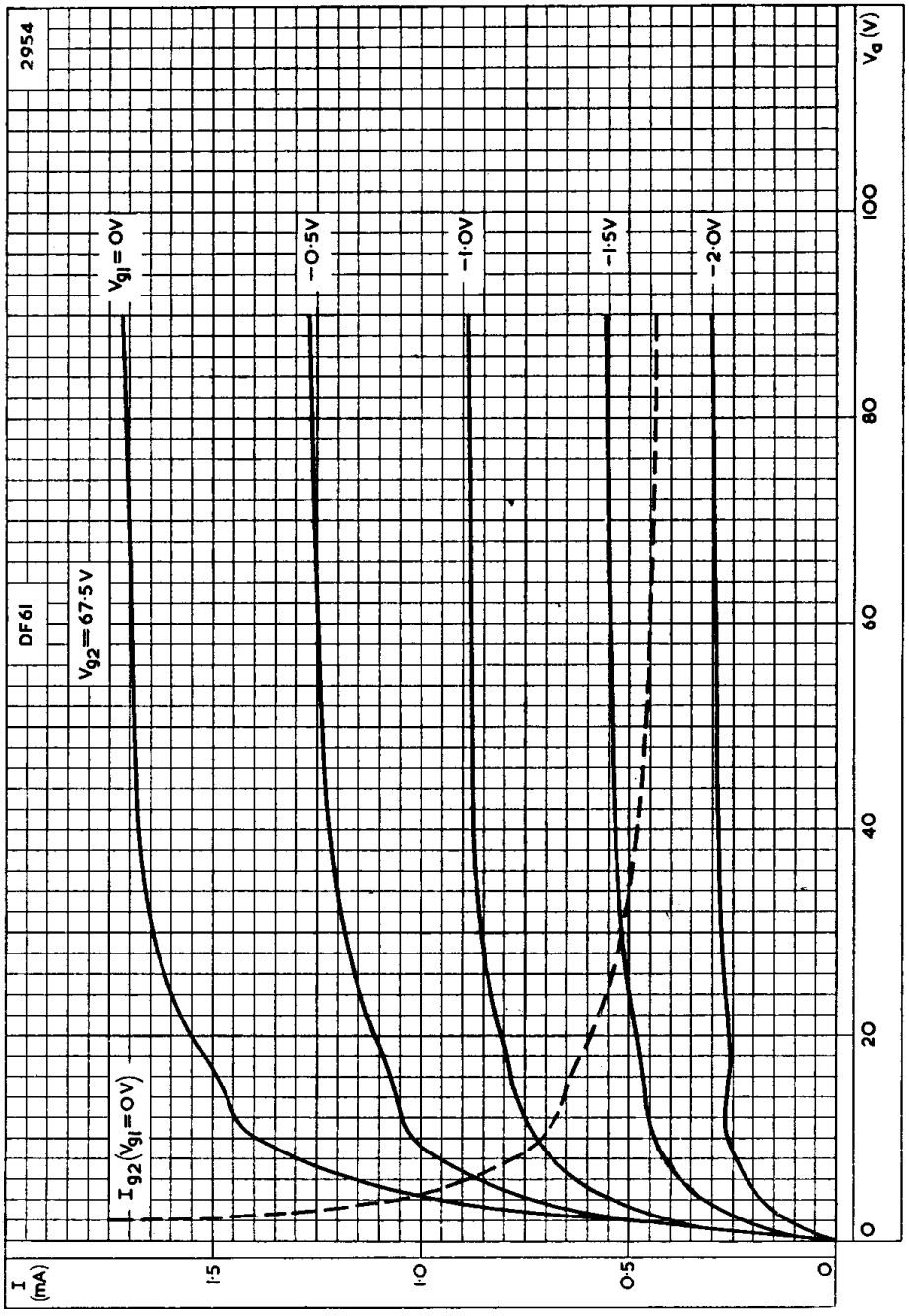
ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE AND ANODE RESISTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

$V_a = V_{g2} = 45V$

DF61

SUBMINIATURE R.F. PENTODE

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



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

SUBMINIATURE R.F. PENTODE

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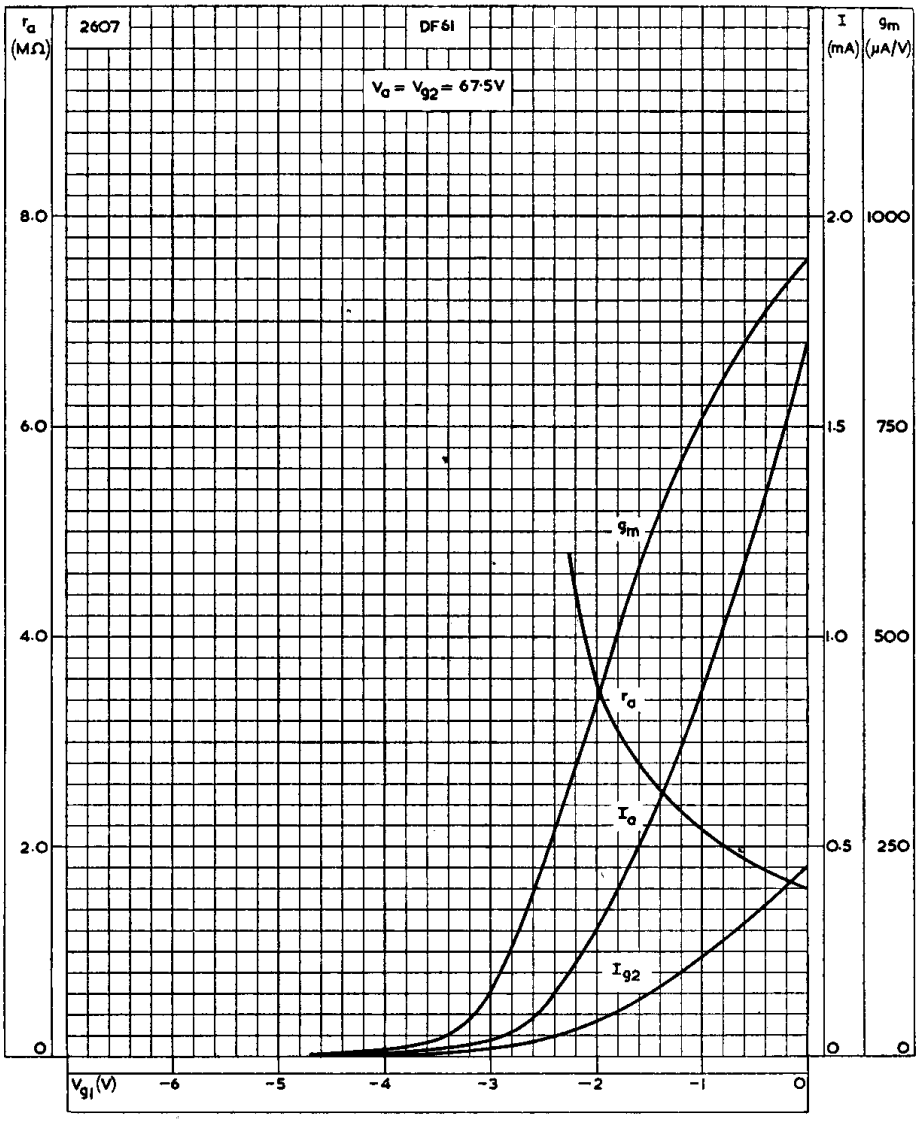
R.F. Pentode for use in battery operated receivers.



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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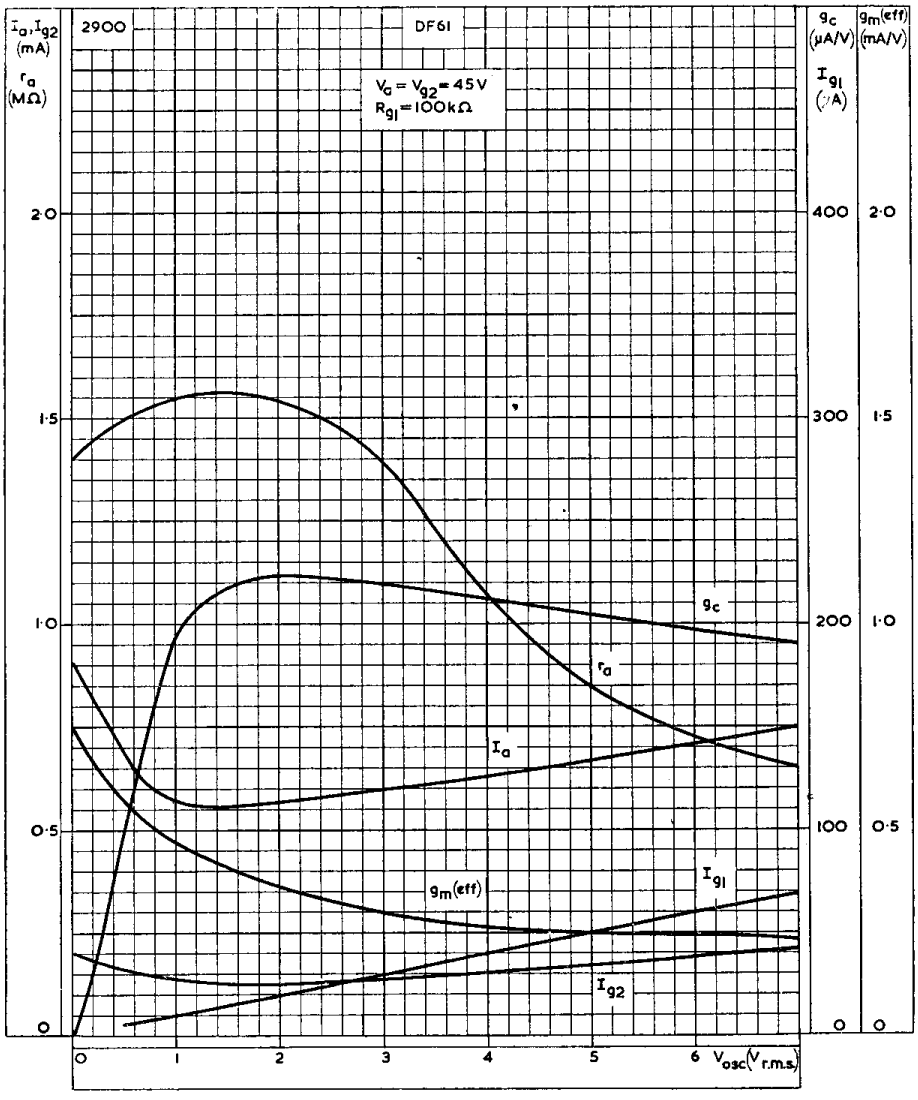

PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g_2} = 45V$

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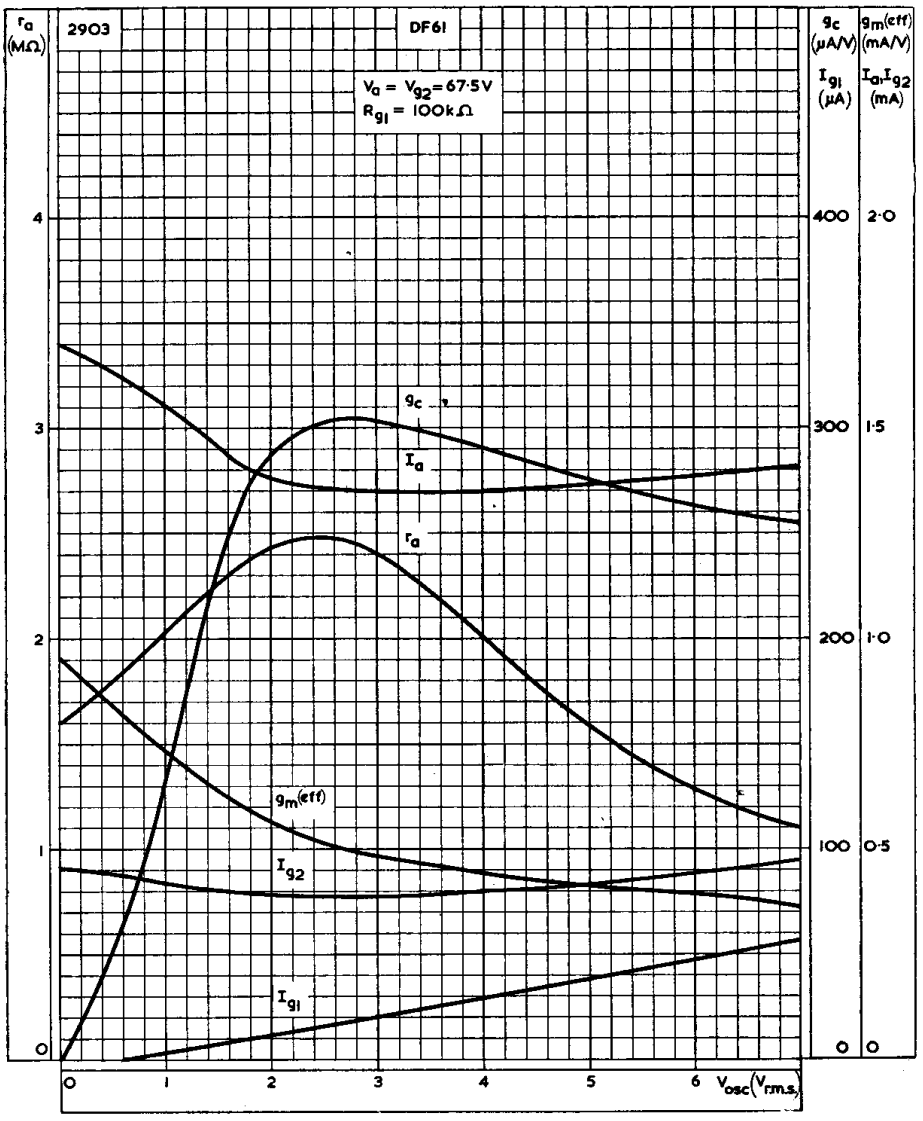

PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g_2} = 67.5V$

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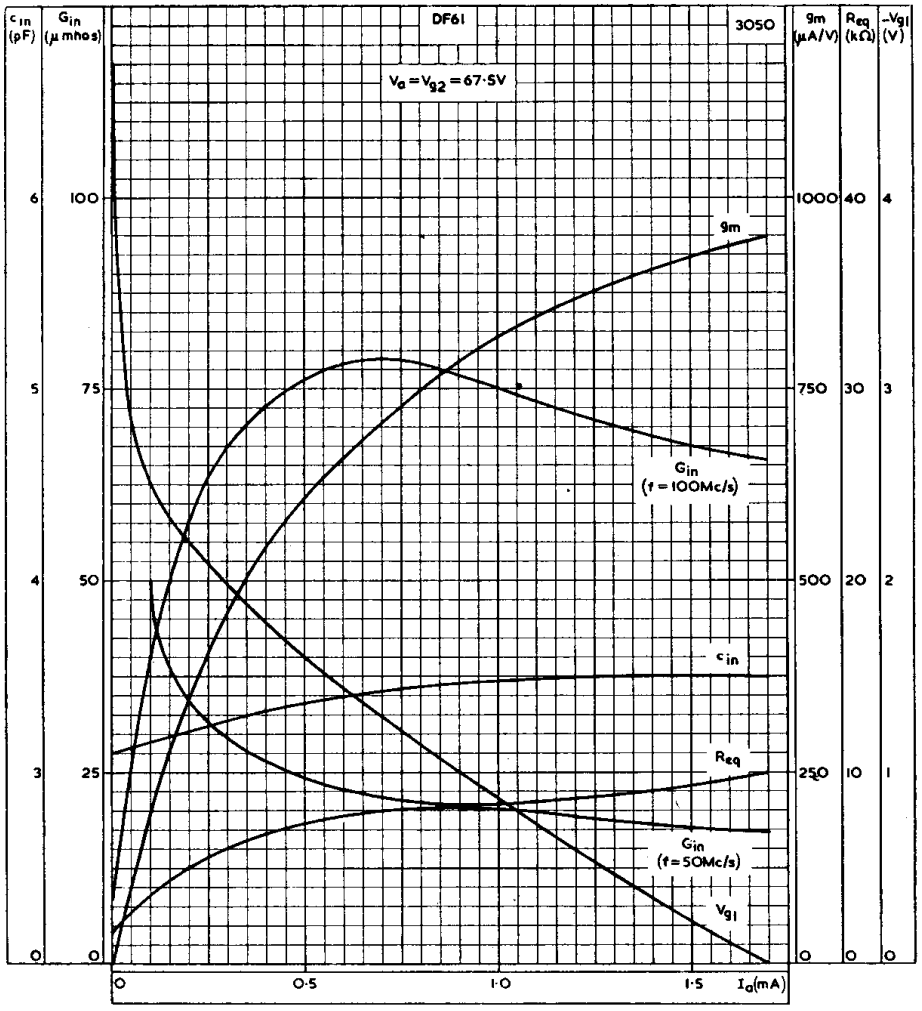

INPUT CONDUCTANCE, EQUIVALENT NOISE RESISTANCE, INPUT CAPACITY, CONTROL-GRID VOLTAGE AND MUTUAL CONDUCTANCE PLOTTED AGAINST ANODE CURRENT