

SUBMINIATURE R.F. PENTODE

DF62

Subminiature sharp cut-off R.F. Pentode for use in battery operated equipment.

FILAMENT

Suitable for d.c. operation only

V_f	1.25	V
I_f	100	mA

CAPACITANCES

C_{a-g1}	< 0.01	pF
C_{in}	4.0	pF
C_{out}	4.0	pF

CHARACTERISTICS

V_a	45	V
V_{g2}	45	V
V_{g1}	0	V
R_{g1}	2.0	MΩ
I_a	3.0	mA
I_{g2}	800	μA
g_m	2.0	mA/V
r_a	500	kΩ
μ_{g1-g2}	17.5	
$R_{in} (f=50Mc/s)$	20	kΩ
R_{eq}	5.5	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	0.8	1.4	mA
I_{g2}	250	450	μA
$V_{osc(r.m.s.)}$	3.5	4.0	V
I_{g1}	40	45	μA
g_c	490	600	μA/V
$g_m(eff)$	600	800	μA/V
r_a	525	450	kΩ

LIMITING VALUES

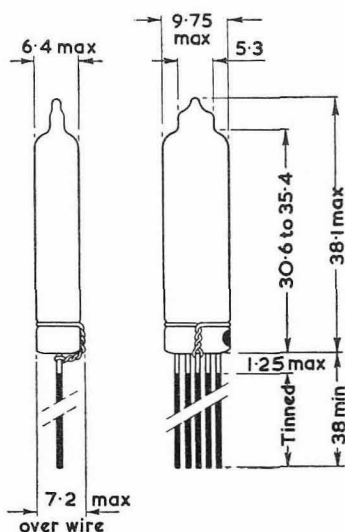
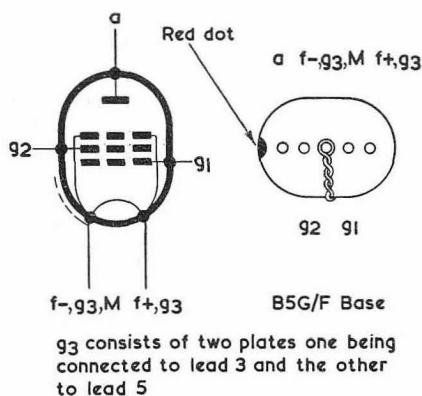
V_a max.	90	V
V_{g2} max.	90	V
I_k max.	6.5	mA
$V_{g1}(I_{g1}=+0.5\mu A)$	-0.5	V

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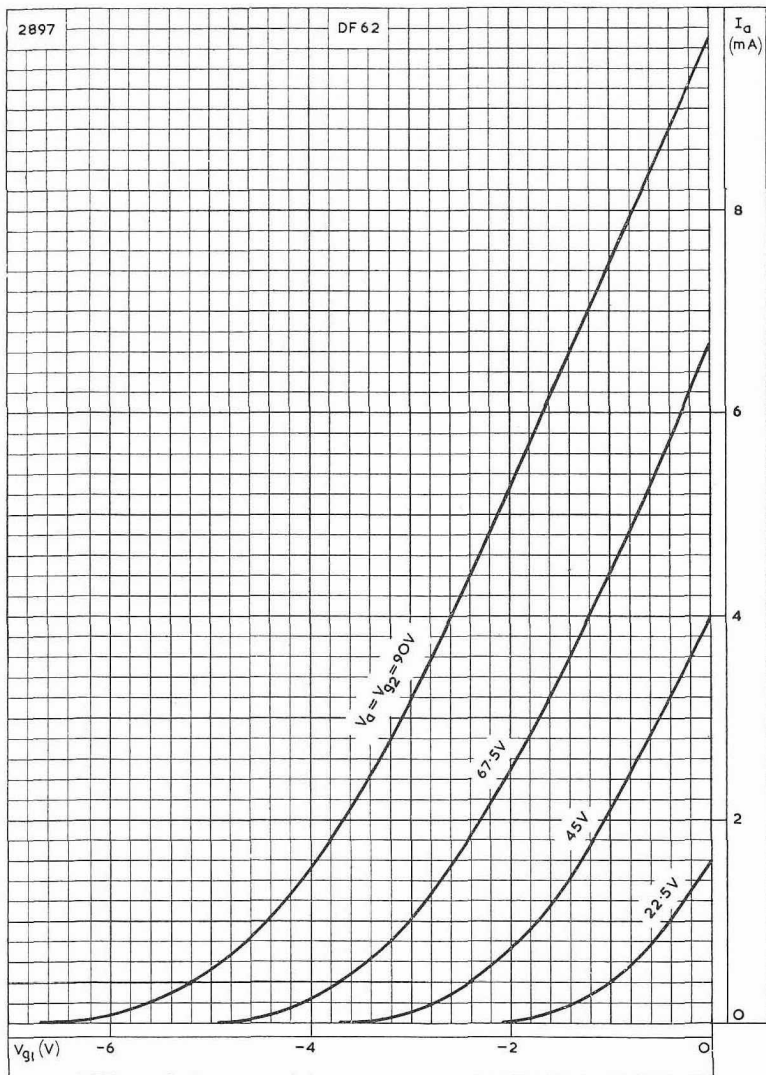


All dimensions in mm

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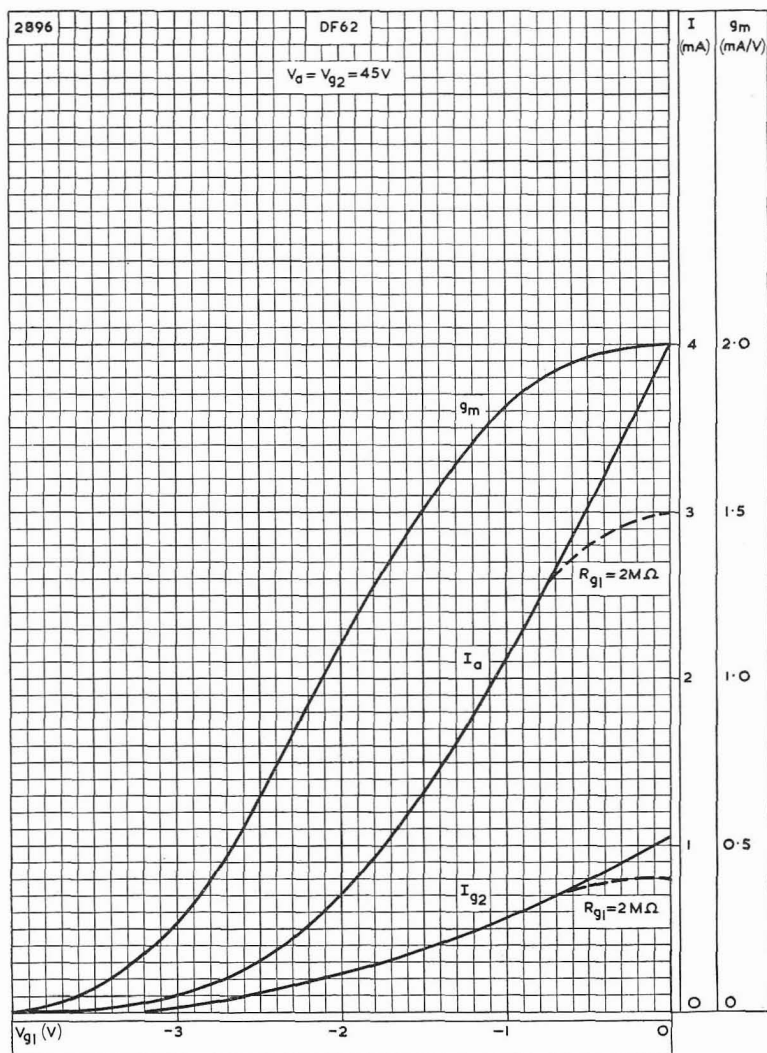


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

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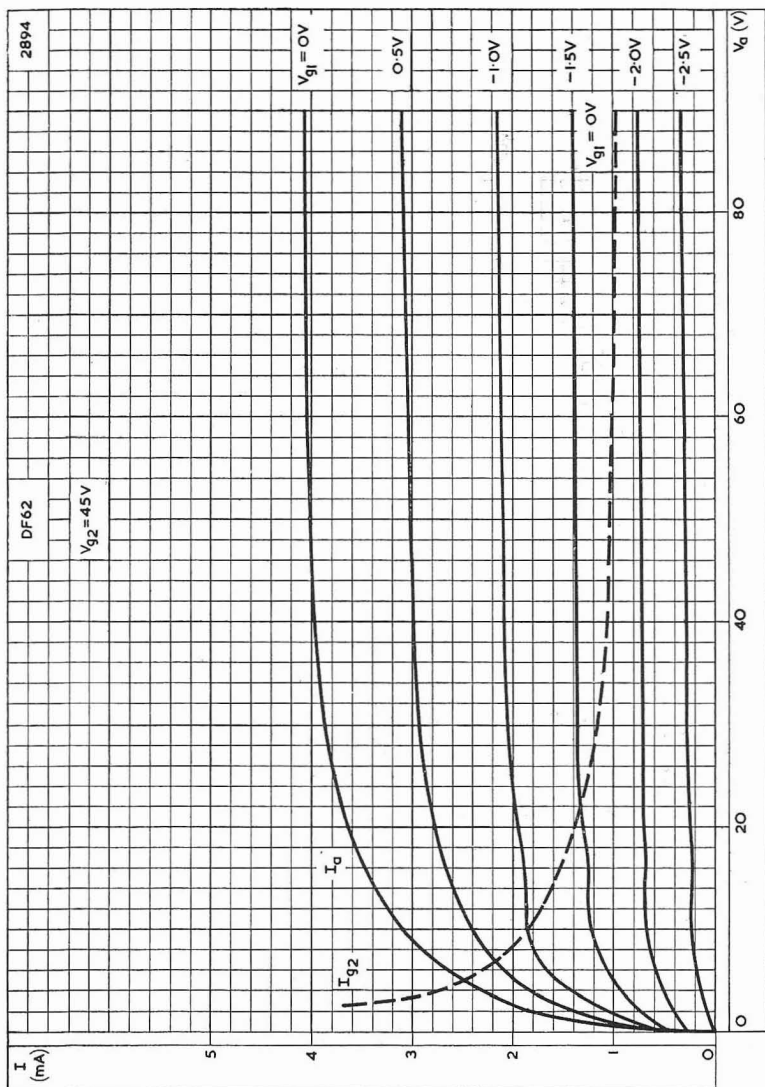
ANODE CURRENT, SCREEN-GRID CURRENT AND MUTUAL
CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

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

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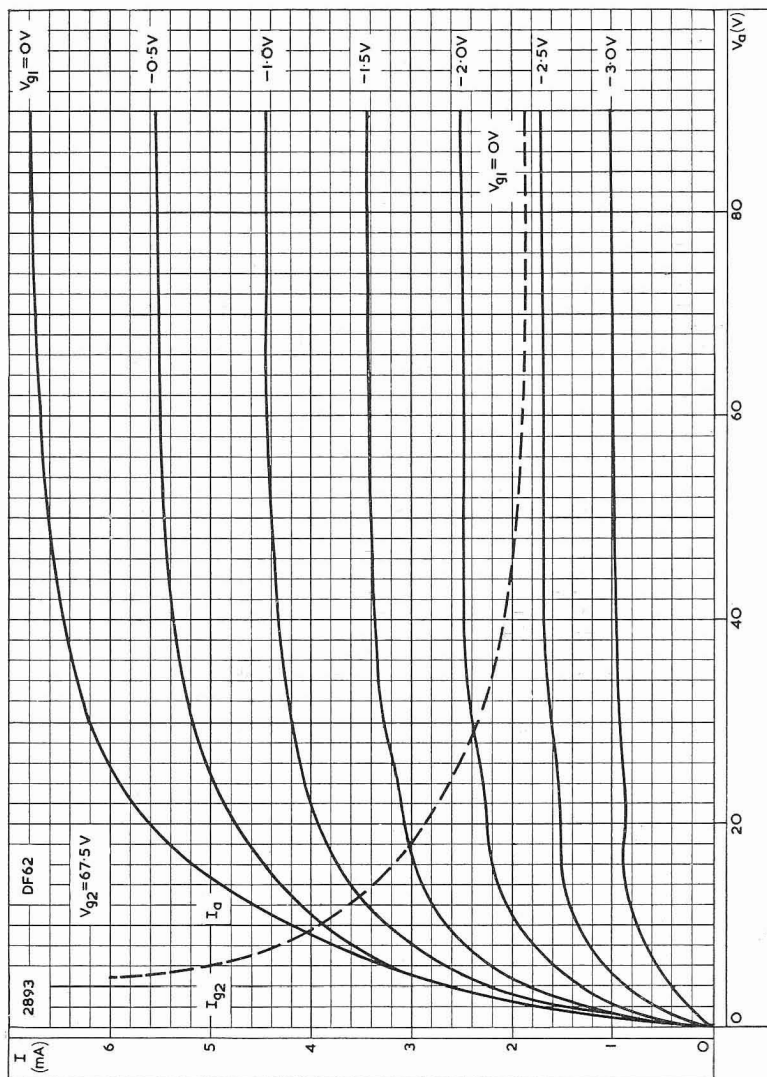


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE. $V_{g2} = 45V$

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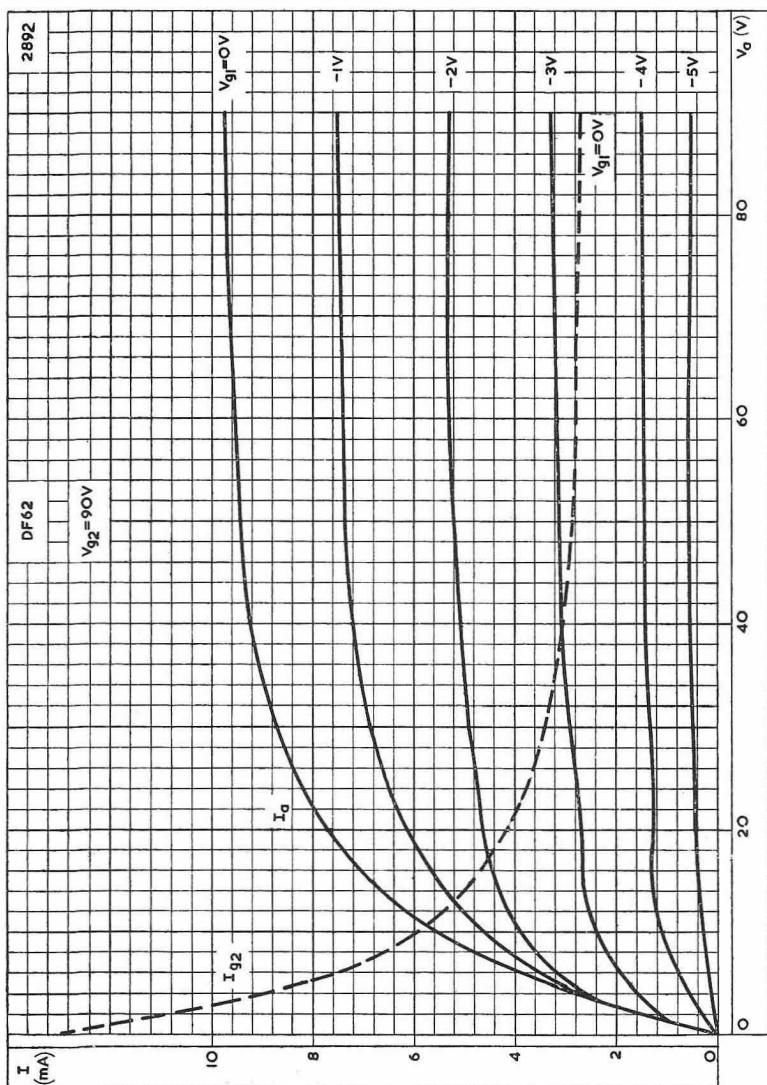
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE. $V_{g2} = 67.5V$



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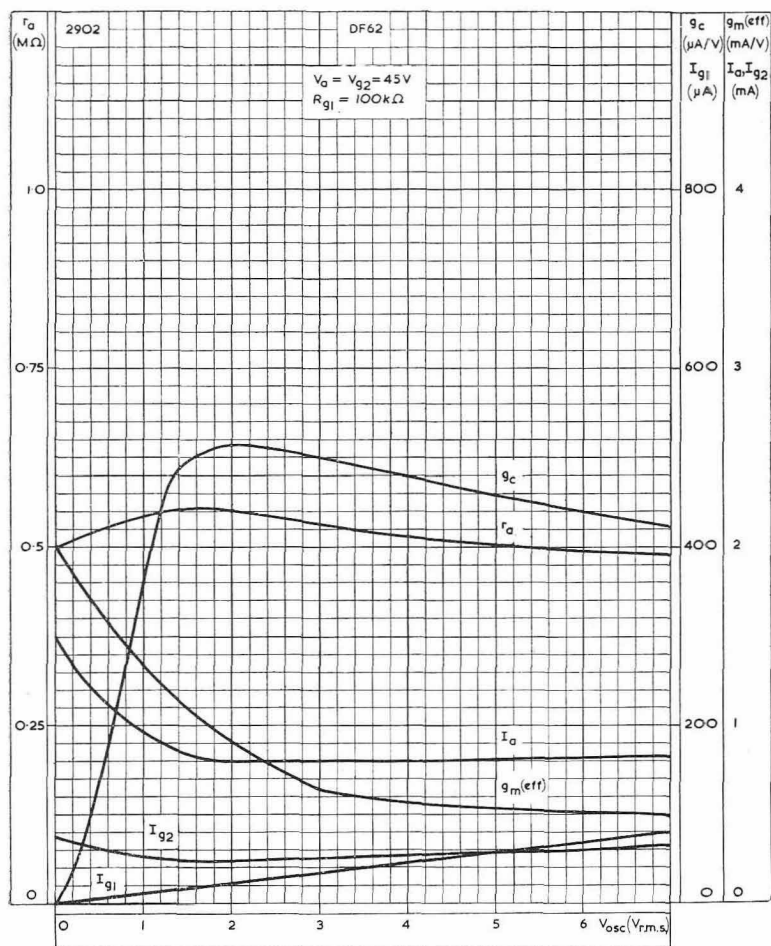


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE. $V_{g2} = 90V$

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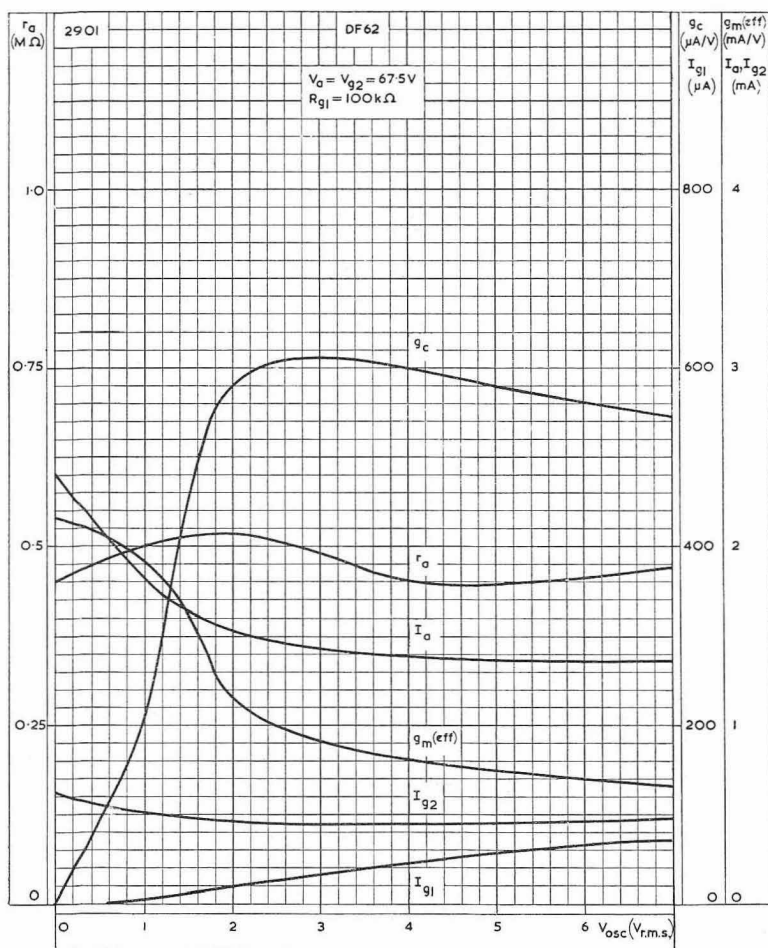


PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 45V$

SUBMINIATURE R.F. PENTODE

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Subminiature sharp cut-off R.F. Pentode for use in battery operated equipment.

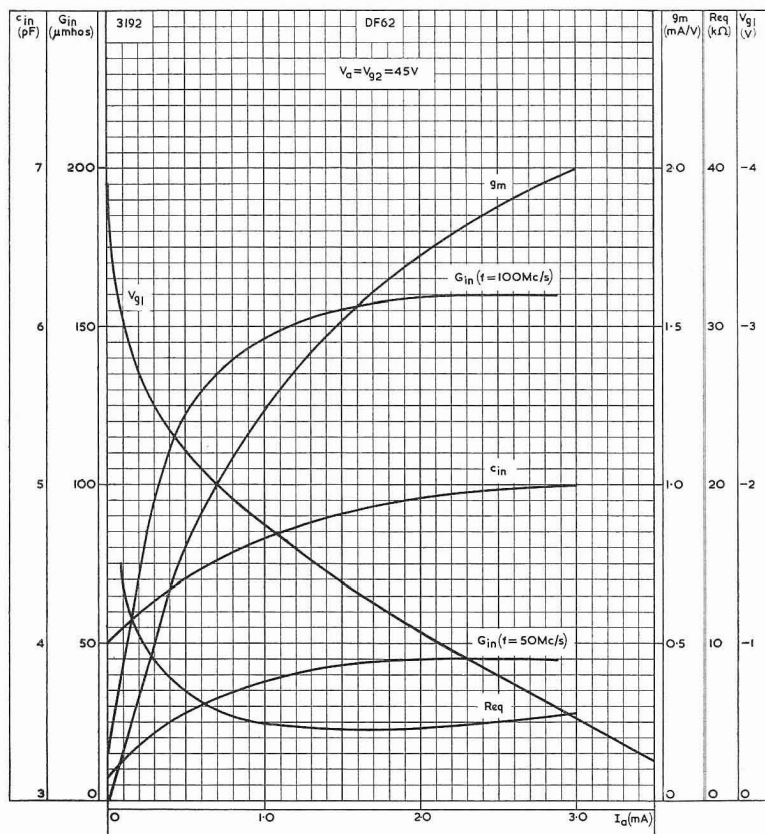


PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 67.5V$

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

