

MINIATURE I.F. PENTODE

DF96

Variable- μ pentode for use as an i.f. amplifier in battery operated receivers.

FILAMENT

Suitable for d.c. operation from a series or parallel supply

	Series	Parallel	
V_f	1.3	1.4	V
I_f	24	25	mA

CAPACITANCES

C_{a-g1}	<0.01	pF
C_{in}	3.3	pF
C_{out}	7.8	pF

OPERATING CONDITIONS AS I.F. AMPLIFIER

$*V_a = V_b$	64	85	V
R_{g2}	0	39	k Ω
V_{g1}	0	0	V
V_{g2}	64	64	V
I_a	1.65	1.65	mA
I_{g2}	550	550	μ A
g_m	850	850	μ A/V $\leftarrow$
r_a	0.7	1.0	M Ω
μ_{g1-g2}	18	18	
$V_{g1}(g_m = 10\mu A/V)$	-4.1	-5.5	V
R_{eq}	14	14	k Ω $\leftarrow$

*Based on line voltages of 67.5 and 90V decreased by the negative bias for the output valve.

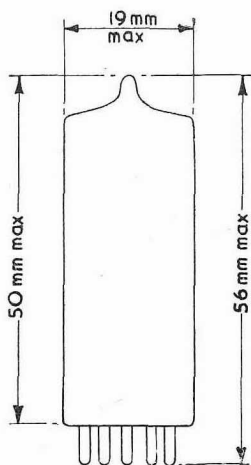
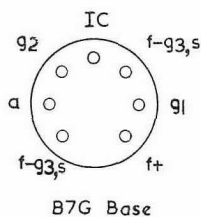
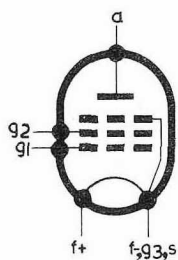
LIMITING VALUES

V_b max. (absolute)	110	V
V_a max.	90	V
P_a max.	250	mW
V_{g2} max.	90	V
P_{g2} max.	100	mW
I_k max.	2.2	mA
R_{g1-k} max.	3.0	M Ω
V_{g1} max. ($I_{g1} = \pm 0.3\mu A$)	0	V

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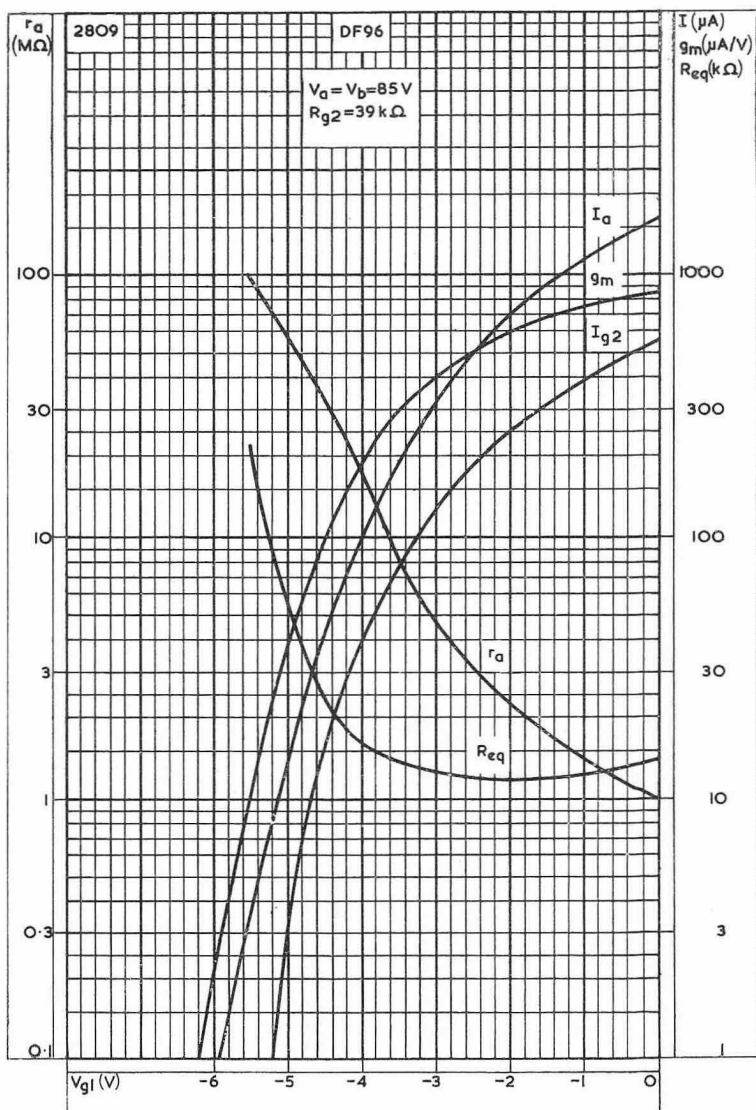


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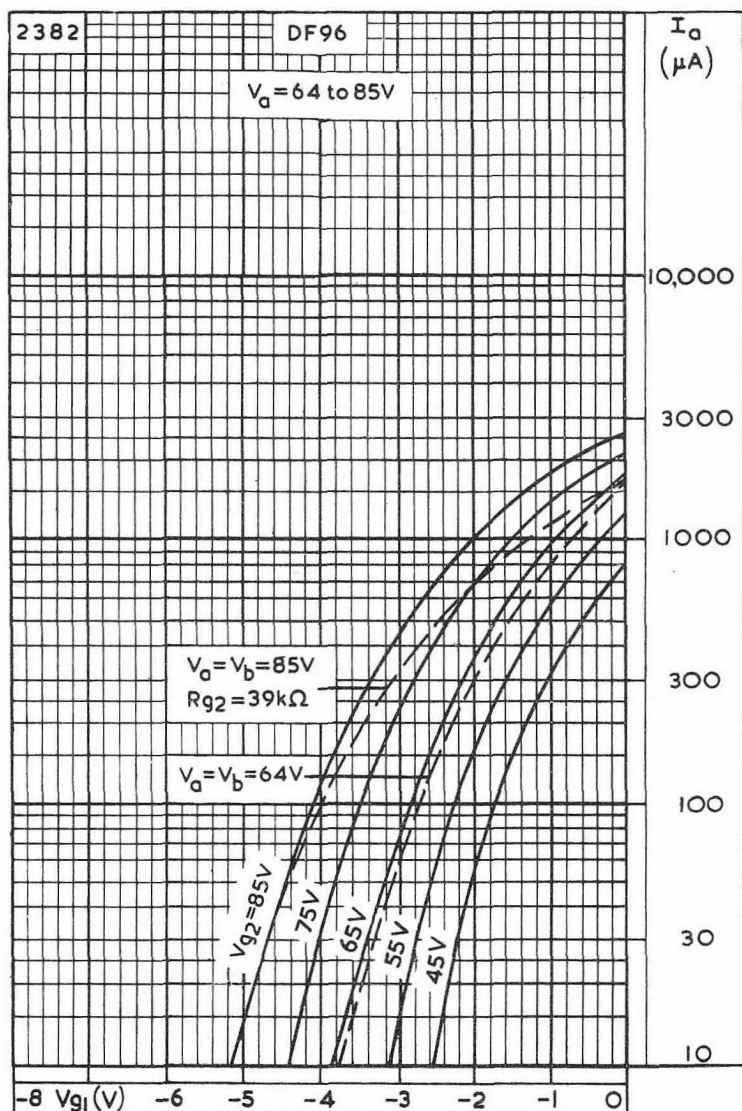


ANODE AND SCREEN-GRID CURRENTS, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

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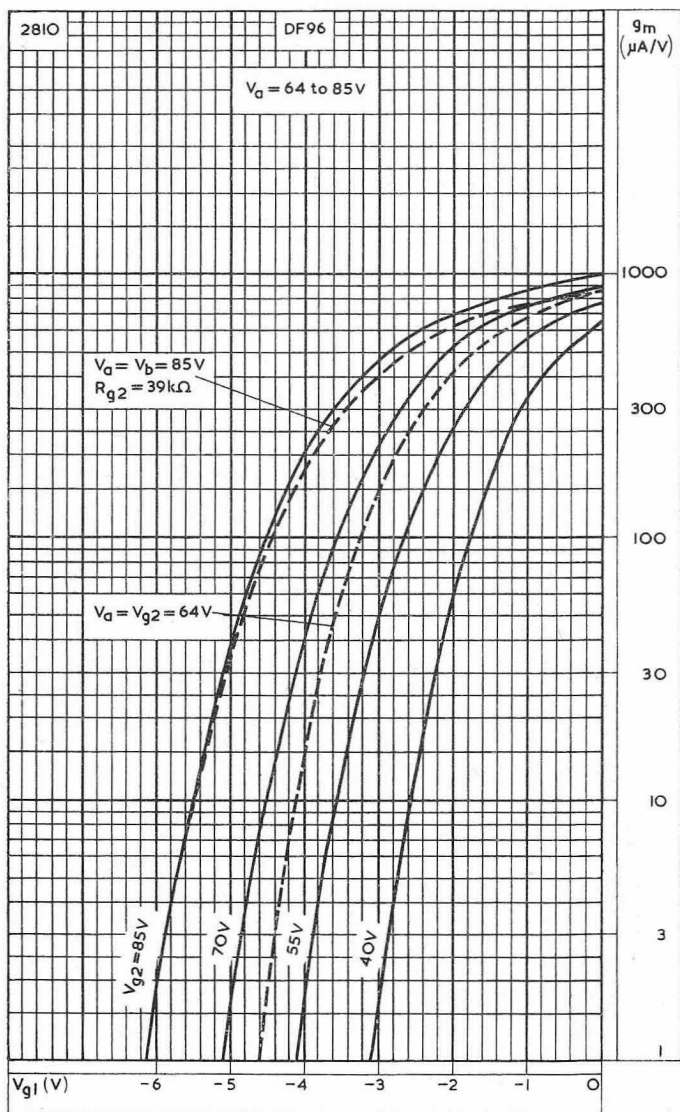


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH
SCREEN-GRID VOLTAGE AS PARAMETER

MINIATURE I.F. PENTODE

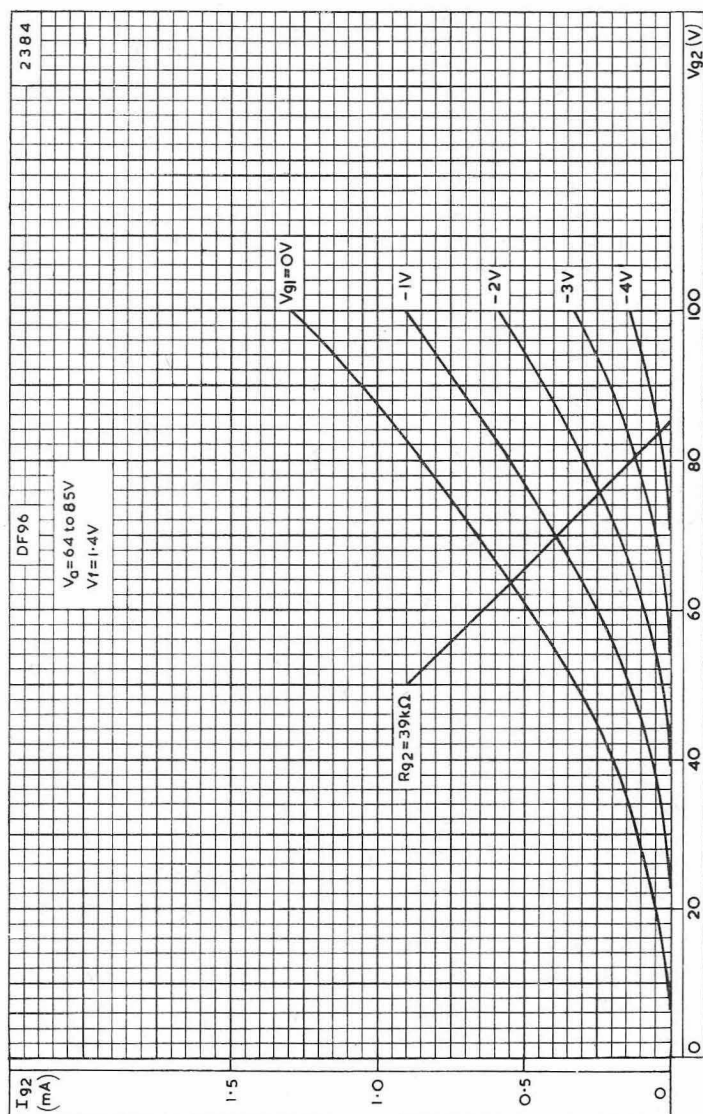
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MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE
WITH SCREEN-GRID VOLTAGE AS PARAMETER

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SCREEN-GRID CURRENT PLOTTED AGAINST SCREEN-GRID VOLTAGE
WITH CONTROL-GRID VOLTAGE AS PARAMETER