MINIATURE HEPTODE FREQUENCY CHANGER

DK91

Miniature heptode, primarily intended as frequency changer in battery-operated receivers, and suitable for A.V.C.

FILAMENT — This valve is suitable for D.C. operation only.

V_f	1.4	V
I_f	0.05	A

CAPACITANCES

$c_{g3\text{-all}}$	7.0	μμF
$c_{a\text{-all}}$	7.5	μμF
$c_{g1\text{-all}}$	3.8	μμF
$c_{g3\text{-a}}$	< 0.4	μμF
$c_{g3\text{-g1}}$	< 0.2	μμF
$c_{a\text{-g1}}$	< 0.1	μμF

OPERATING CONDITIONS

V_a	45	67.5	90	90	V
V_{g2+g4}	45	67.5	45	67.5	V
V_{g3}	0	0	0	0	V
R_{g1}	0.1	0.1	0.1	0.1	M.ohm
r_a	0.6	0.5	0.8	0.6	M.ohm
g_c	235	280	250	300	μA/V
V_{g3} (g_c = 5 μA/V)	-9	-14	-9	-14	V
I_a	0.7	1.4	0.8	1.6	mA
I_{g2+g4}	1.9	3.2	1.9	3.2	mA
I_{g1}	150	250	150	250	μA
$I_{k_{tot}}$	2.75	5.0	2.75	5.0	mA

OSCILLATOR SECTION

$V_{g1} = V_{g3}$	0	V
$V_{g2} = V_{g4} = V_a$	67.5	V
g_m (g_1-g_2+g_4+a)	1.4	mA/V

LIMITING VALUES

V_a max.	90	V
$V_{g2+g4(b)}$ max.	90	V
V_{g2+g4} max.	67.5	V
V_{g3} max.	0	V
I_{ko} max.	5.5	mA

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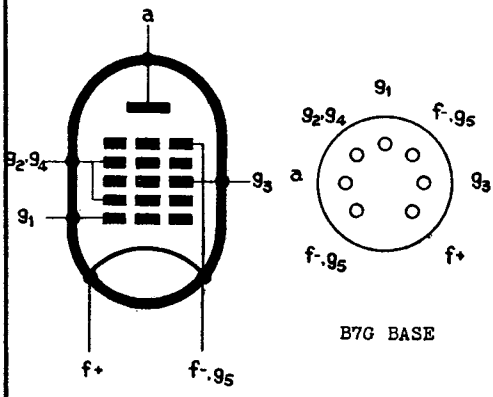
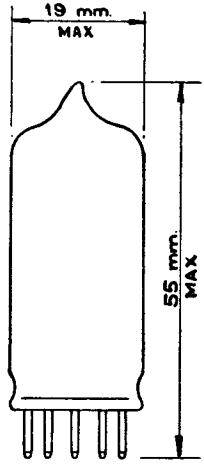
ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



B7G BASE

DIMENSIONS



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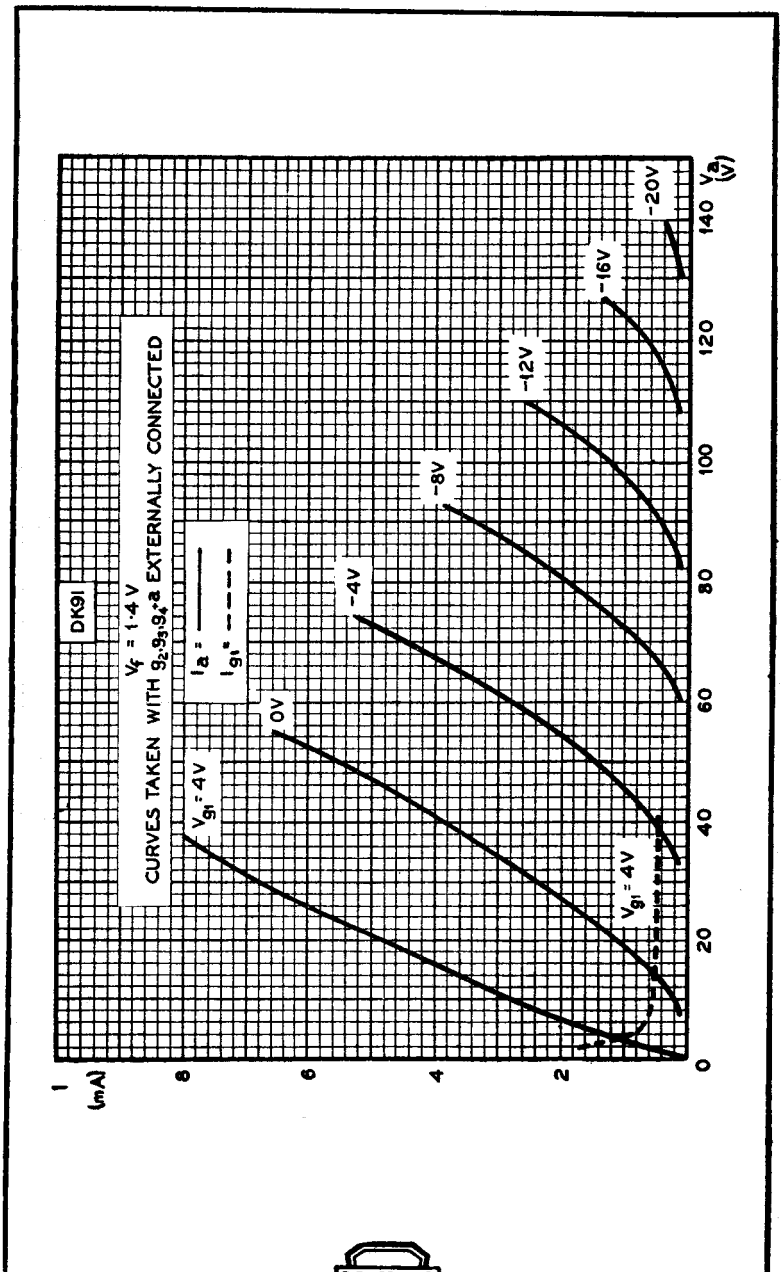

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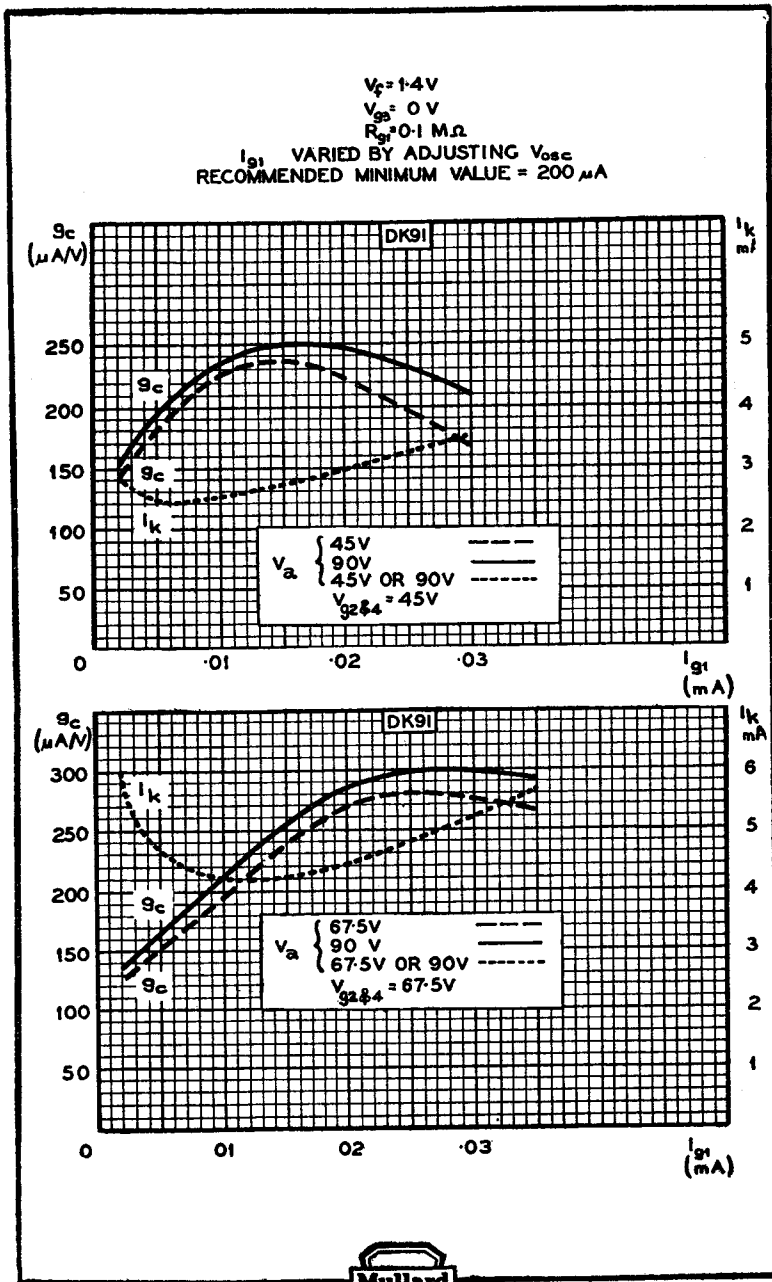

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