

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

OPERATING CONDITIONS

V	45	67.5	90	90	V
V_{g2+g4}^a	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	$\mu\text{A/V}$
V_{g3} ($g_c = 5 \mu\text{A/V}$)	-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_{k_o} max.	5.5	mA

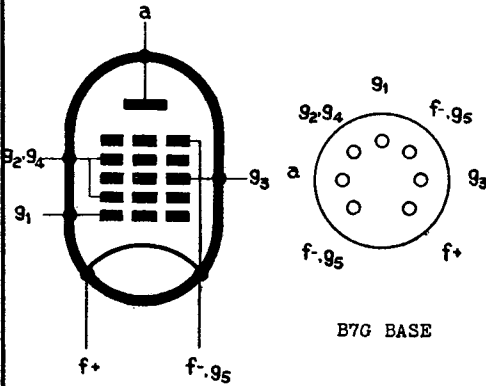


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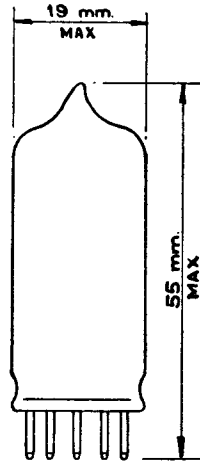
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ARRANGEMENT OF ELECTRODES
AND BASE CONNECTIONS



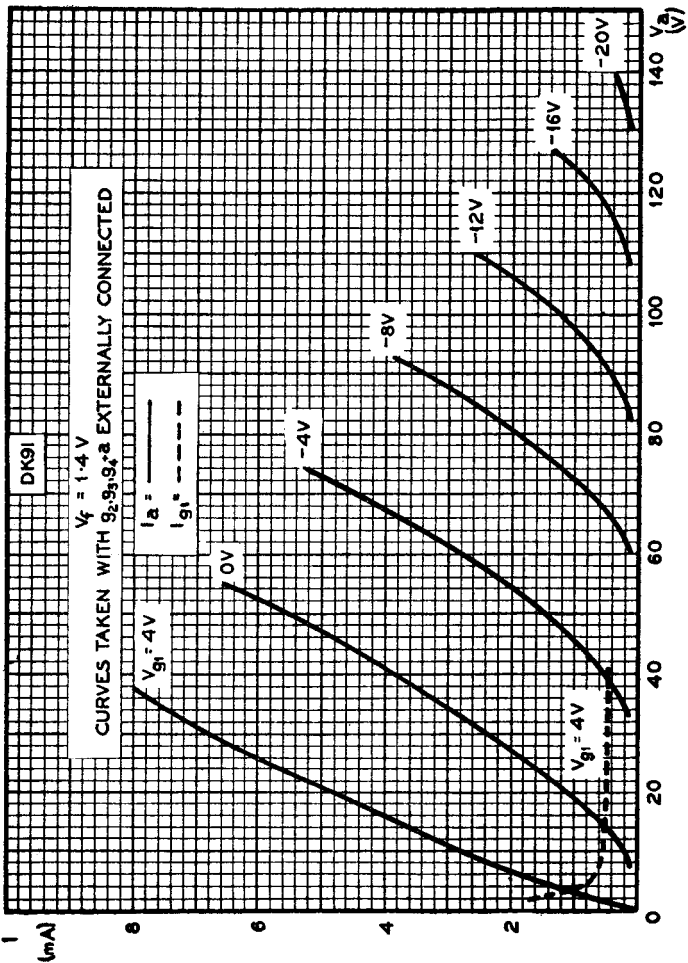
DIMENSIONS



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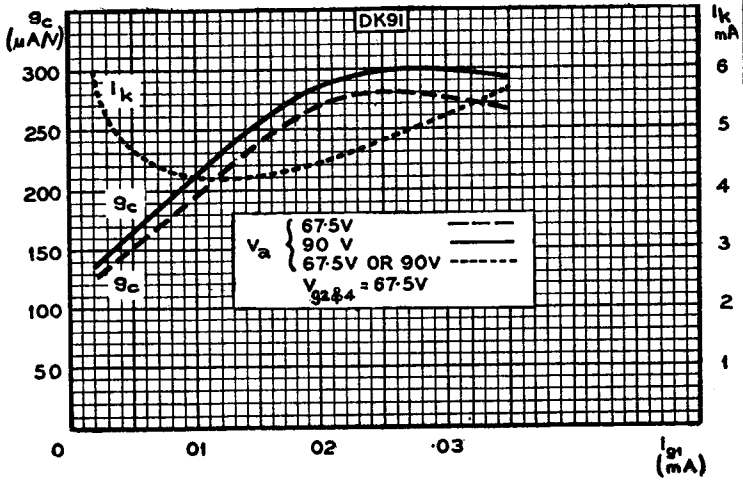
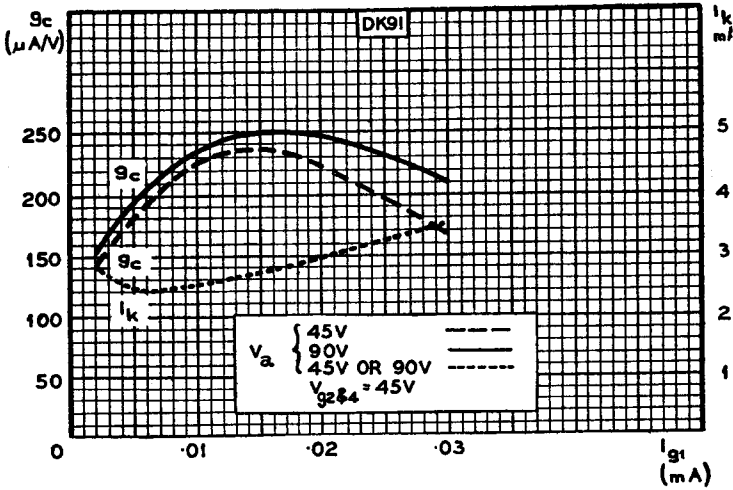
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$$V_f = 1.4V$$

$$V_{g2} = 0V$$

$$R_{g1} = 0.1 M\Omega$$

I_{g1} VARIED BY ADJUSTING V_{osc}
RECOMMENDED MINIMUM VALUE = $200 \mu A$



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