

HEPTODE FREQUENCY CHANGER

DK32

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_{a-g4}	0.5	$\mu\mu F$
C_{out}	10.0	$\mu\mu F$
C_{g4-all}	7.0	$\mu\mu F$
C_{g2-g4}	0.4	$\mu\mu F$
C_{g1-g4}	0.2	$\mu\mu F$
C_{g1-g2}	0.9	$\mu\mu F$
$C_{g2-all} \text{ (less } g_1)$	4.4	$\mu\mu F$
$C_{g1-all} \text{ (less } g_2)$	4.0	$\mu\mu F$

TYPICAL OPERATING CONDITIONS

V_a	90	90	V
V_{g3+g5}	45	45	V
V_{g2}	90	90	V
V_{g4}	0	-3	V
I_a	0.6	-	mA
I_{g3+g5}	0.7	-	mA
I_{g2}	1.2	-	mA
I_{g1}	35	-	μA
R_k	2.5	-	mA
R_{g1}	200,000	200,000	ohms
r_a	0.6	-	M.ohm
g_c	250	5.0	$\mu A/V$

CHARACTERISTICS OF OSCILLATOR SECTION ($V_{osc} = 0$)

V_a	90	V
V_{g3+g5}	45	V
V_{g4}	0	V
V_{g2}	90	V
V_{g1}	0	V
g_m	550	$\mu A/V$



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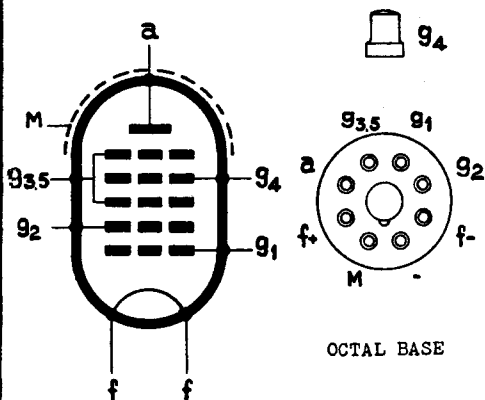
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LIMITING VALUES

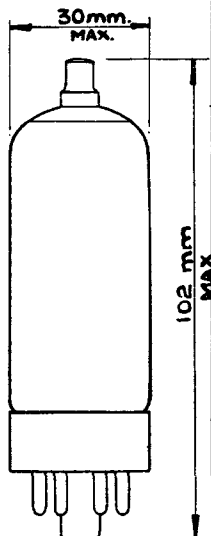
V_a max.	110	V
$V_{g3+g5(b)}$ max.	110	V
V_{g3+g5} max.	60	V
V_{g2} max.	110	V
I_{k0} max.	4	mA
R_{g4} min.	1 M	ohm

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



OCTAL BASE

DIMENSIONS



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