

# 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	$\mu\mu F$
$C_{g2-all}$ (less $g_1$ )	4.4	$\mu\mu F$
$C_{g1-all}$ (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	-	$\mu A$
$R_k$	2.5	-	mA
$R_{g1}$	200,000	200,000	ohms
$r_a$	0.6	-	M.ohm
$S_c$	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
$S_m$	550	$\mu A/V$



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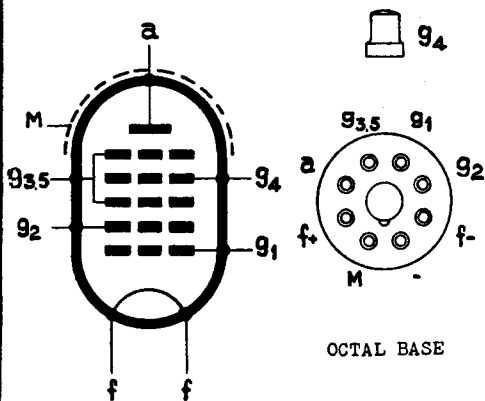
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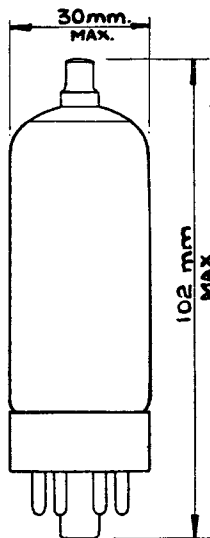
### LIMITING VALUES

$V_a$ 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



### DIMENSIONS



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