

HEPTODE FREQUENCY CHANGER

DK92

Miniature heptode, primarily intended as frequency changer in battery-operated receivers, and suitable for a.v.c. It combines a high conversion conductance for this type of valve with a low oscillator drive voltage.

FILAMENT

Suitable for series or parallel operation, d.c. only

	Series	Parallel	V
V_f	1.3	1.4	
I_f	48	50	mA

CAPACITANCES

C_{a-all}	8.5	pF
C_{g1-all}	7.5	pF
C_{g2-all}	5.0	pF
C_{g1-g2}	4.0	pF
C_{a-g3}	< 400	mpF
C_{g2-g3}	1.6	pF
C_{g1-g3}	< 200	mpF
C_{g1-g2}	3.0	pF

OPERATING CONDITIONS

$V_a = V_b$	85	V
V_{g3}	0	V
R_{g4}	180	k Ω
R_{g2}	33	k Ω
R_{g1-f+}	27	k Ω
V_{g4} (approx.)	60	V
V_{g2} (approx.)	30	V
$V_{g1(r.m.s.)}$	4.0	V
I_k	2.55	mA
I_a	700	μ A
I_{g4}	150	μ A
I_{g2}	1.6	mA
* I_{g1}	100	μ A
g_c	325	μ A/V
r_a	650	k Ω
V_{g3} (for 100:1 reduction in g_c)	-6.0	V

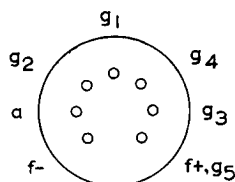
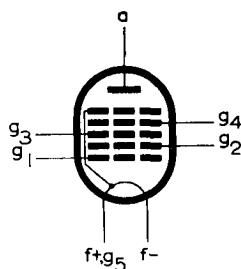
*Optimum value. In a typical circuit, I_{g1} should be between 50 μ A and 250 μ A.

Oscillator Section (with g_1 connected to f+)

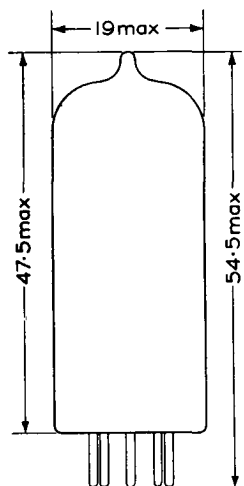
V_a	85	V
V_{g4}	60	V
V_{g3}	0	V
V_{g2}	30	V
I_{g2}	2.5	mA
$g_m(g1-g2)$	900	μ A/V
μ_{g1-g2}	7.5	

LIMITING VALUES

V_b max. (absolute)	140	V
V_b max.	120	V
V_a max.	90	V
V_{g4} max.	90	V
V_{g2} max.	60	V
I_k max.	4.0	mA
R_{g3-f} max.	3.0	M Ω
R_{g1-f} max.	35	k Ω



B7G Base



All dimensions in mm

7081