

HEPTODE FREQUENCY CHANGER

DK96

FILAMENT

V_f	1.4	V
I_f	25	mA

CAPACITANCES

C_{a-a11}	8.4	pF
C_{g1-a11}	3.9	pF
C_{g2-a11}	4.8	pF
C_{g3-a11}	7.4	pF
C_{a-g1}	<110	mpF
C_{a-g2}	<300	mpF
C_{a-g3}	<360	mpF
C_{g1-g2}	3.0	pF
C_{g1-g3}	<200	mpF
C_{g2-g3}	1.6	pF

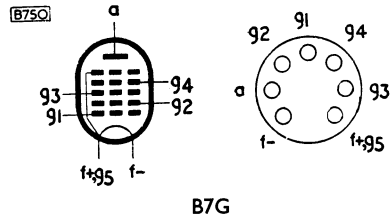
LIMITING VALUES

V_a max.	90	V
P_a max.	150	mW
V_{g2} max.	60	V
P_{g2} max.	100	mW
V_{g4} max.	90	V
P_{g4} max.	30	mW
I_k max.	2.6	mA
R_{g3-f} max.	3.0	M Ω
R_{g1-f} max.	100	k Ω

CHARACTERISTICS

Oscillator section
(With g_1 returned to f_+)

$V_a = V_b$	64	85	V
V_{g4}	64	64	V
V_{g3}	0	0	V
V_{g2}	35	35	V
V_{g1}	+1.4	+1.4	V
I_{g2}	1.7	1.7	mA
$g_m(g1-g2)$	600	600	$\mu A/V$
μ_{g1-g2}	7.5	7.5	



DIMENSIONS

Max. overall length	56	mm
Max. seated height	50	mm
Max. diameter	19	mm

OPERATING CONDITIONS

* $V_a = V_b$	64	85	V
V_{g3}	0	0	V
R_{g4}	0	120	k Ω
R_{g2}	18	33	k Ω
R_{g1-f+}	27	27	k Ω
V_{g4} (approx.)	64	68	V
V_{g2} (approx.)	35	35	V
V_{ose}	4.0	4.0	V
I_k	2.45	2.4	mA
I_a	550	600	μA
I_{g4}	120	140	μA
I_{g2}	1.6	1.5	mA
I_{g1}	85	85	μA
g_e	275	300	$\mu A/V$
r_a	750	800	k Ω
† V_{g3}	-4.5	-6.5	V

*Based on line voltages of 67.5V and 90V decreased by the negative bias for the output valve.

†For 100:1 reduction in g_e .

REPLACEMENT FOR: X25, 1A6, 1C3.

