

"Miniwatt"

UAF 41

Preliminary data

DIODE-PENTODE with variable- μ
for H.F., I.F. or L.F. amplifier and detector or A.V.C.

HEATER A.C./D.C. series supply $V_f = 12,6 \text{ V}$
 $I_f = 0,100 \text{ A}$

CAPACITIES pentode section $C_{ag1} < 0,002 \text{ pF}$
 $C_a = 7,0 \text{ pF}$
 $C_{g1} = 4,0 \text{ pF}$
 $C_{glf} < 0,05 \text{ pF}$

diode section $C_{dk} = 3,8 \text{ pF}$
 $C_{df} < 0,02 \text{ pF}$

between pentode- and diode section $C_{dg1} < 0,0015 \text{ pF}$
 $C_{da} < 0,15 \text{ pF}$

OPERATING CONDITIONS of the pentode section as H.F.- or I.F. amplifier.

$V_a = V_b =$	100	170	200	V
$R_{g2} =$	44	44	44	k Ω
$R_k =$	300	300	300	Ω
$V_{g1} =$	-1,1	-2	-2,4	-35 V
$I_a =$	2,8	5	6	mA
$I_{g2} =$	0,9	1,6	1,9	mA
$S =$	1650	1800	1900	19 $\mu\text{A/V}$
$R_i =$	1	1,2	1,3	>10 M Ω
$\mu_{g2g1} =$	17	17	17	-
$R_{eq} =$	7	9	9,6	k Ω

OPERATING CONDITIONS of the pentode section as L.F. - amplifier

V_b (V)	R_a (M Ω)	R_{g2} (M Ω)	R_k (k Ω)	I_a (mA)	I_{g2} (mA)	V_o (V_{eff})	d (%)	V_o/V_i
170	0,2	0,73	2,7	0,58	0,19	6,2	1,8	78
100	0,2	0,73	2,7	0,34	0,10	4,0	1,3	73

UAF 41

"Miniwatt"

LIMITS of the pentode section

V _{ao}	=	max.	550	V
V _a	=	max.	250	V
W _a	=	max.	2	W
V _{g2o}	=	max.	550	V
V _{g2} (I _a < 3 mA)	=	max.	250	V
V _{g2} (I _a = 6 mA)	=	max.	150	V
W _{g2}	=	max.	0,3	W
I _k	=	max.	10	mA
V _{g1} (I _{g1} = ±0,3 μA)	=	max.	-1,3	V
R _{g1k}	=	max.	3	MΩ
R _{fk}	=	max.	20	kΩ
V _{fk}	=	max.	150	V

LIMITS of the diode section

V _d (peak value)	=	max.	200	V
I _d	=	max.	0,8	mA
V _d (I _d = + 0,3 μA)	=	max.	-1,3	V
R _{fk}	=	max.	20	kΩ
V _{fk}	=	max.	150	V

Electrode arrangement, electrode connections and max. dimensions in mm.

