

# "Miniwatt"

# UAF 41

Preliminary data

**DIODE-PENTODE** with variable- $\mu$   
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  $C_{dgl} < 0,0015 \text{ pF}$   
 $C_{da} < 0,15 \text{ pF}$

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 $\Omega$
$R_k =$	300	300	300	$\Omega$
$V_{g1} =$	-1,1	-2	-2,4	V
$I_a =$	2,8	5	6	mA
$I_{g2} =$	0,9	1,6	1,9	mA
$S =$	1650	1800	1900	$\mu\text{A/V}$
$R_i =$	1	1,2	1,3	M $\Omega$
$\mu_{g2g1} =$	17	17	17	-
$R_{eq} =$	7	9	9,6	k $\Omega$

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

$V_b$ (V)	$R_a$ (M $\Omega$ )	$R_{g2}$ (M $\Omega$ )	$R_k$ (k $\Omega$ )	$I_a$ (mA)	$I_{g2}$ (mA)	$V_o$ ( $V_{eff}$ )	$d$ (%)	$V_o/V_1$
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

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### LIMITS of the pentode section

Vao	=	max.	550	V
Va	=	max.	250	V
Wa	=	max.	2	W
Vg2o	=	max.	550	V
Vg2 (Ia < 3 mA)	=	max.	250	V
Vg2 (Ia = 6 mA)	=	max.	150	V
Wg2	=	max.	0,3	W
Ik	=	max.	10	mA
Vg1 (Igl = +0,3 $\mu$ A)	=	max.	-1,3	V
Rglk	=	max.	3	M $\Omega$
Rfk	=	max.	20	k $\Omega$
Vfk	=	max.	150	V

### LIMITS of the diode section

Vd (peak value)	=	max.	200	V
Id	=	max.	0,8	mA
Vd (Id = +0,3 $\mu$ A)	=	max.	-1,3	V
Rfk	=	max.	20	k $\Omega$
Vfk	=	max.	150	V

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

