

# UCH 81

Regelbare  
Heptode  
mit Triode

Heptode:  
HF/ZF-  
Verstärker  
Mischer  
Triode:  
Oszillator  
Mischer,  
selbst-  
schwingend

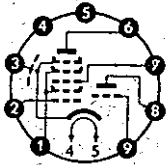
Remote cutoff  
heptode  
with triode

Heptode:  
RF/IF ampli-  
fiers, mixers

Triode:  
oscillators  
mixers,  
self-excited

Pico 9  
Noval  
Größe 10  
Outlines 10

Stift · Pin  
1  $g_2, g_4$   
2  $g_1$   
3  $k, s, g_5$   
4  $f$   
5  $f'$   
6  $a_H$   
7  $g_3$   
8  $a_T$   
9  $g_T$



$I_f = 100 \text{ mA}$   
 $U_f \text{ ca. } 19 \text{ V}$   
indirekt geheizt  
indir. heated

**Triode**  
 $U_a = 100 \text{ V}$   
 $U_g = 0 \text{ V}$   
 $I_a = 13,5 \text{ mA}$   
 $S = 3,7 \text{ mA/V}$   
 $\mu = 22$

**Triode, Oszillator · Oscillator**  
 $U_b = 200 \text{ V}$   
 $R_a = 15 \text{ k}\Omega$   
 $R_g = 47 \text{ k}\Omega$   
 $I_g = 240 \mu\text{A}$   
 $I_a = 5,4 \text{ mA}$   
 $S_{\text{eff}} = 0,58 \text{ mA/V}$

**Heptode, Mischer mixer**  
 $g_3$  mit  $g_T$  verbunden  
 $g_3$  connected to  $g_T$   
 $U_a = U_b = 200 \text{ V}$   
 $R_{g2g4} = 10 \text{ k}\Omega$   
 $R_{gTg3} = 47 \text{ k}\Omega$   
 $I_{gT+g3} = 230 \mu\text{A}$   
 $R_k = 150 \Omega$   
 $U_k = -2,6 \text{ V}$   
 $I_{g1} = 3,7 \text{ mA}$   
 $I_{g2+g4} = 8,1 \text{ mA}$   
 $S_c = 775 \mu\text{A/V}$   
 $R_i = 1 \text{ M}\Omega$   
 $r_{\text{aeq}} = 75 \text{ k}\Omega$   
 $U_{g1} (S_c = 7,5 \mu\text{A/V}) = -28 \text{ V}$

**Heptode HF/ZF-Verstärker RF/IF amplifier**  
 $U_a = U_b = 200 \text{ V}$   
 $R_{g2g4} = 18 \text{ k}\Omega$   
 $U_{g3} = 0 \text{ V}$   
 $R_k = 220 \Omega$   
 $U_{g1} = -2,6 \text{ V}$   
 $I_a = 7,6 \text{ mA}$   
 $I_{g2+g4} = 4,3 \text{ mA}$   
 $S = 2400 \mu\text{A/V}$   
 $R_i = 0,6 \text{ M}\Omega$   
 $\mu_{g2g1} = 20$   
 $r_{\text{aeq}} = 9,7 \text{ k}\Omega$   
 $U_{g1} (S = 24 \mu\text{A/V}) = -33 \text{ V}$

**Triode**  
 $U_a = 250 \text{ V}$   
 $N_a = 0,8 \text{ W}$   
 $I_k = 6,5 \text{ mA}$   
 $R_g = 3 \text{ M}\Omega$

**Heptode**  
 $U_a = 250 \text{ V}$   
 $N_a = 1,7 \text{ W}$   
 $U_{g2g4} (I_a < 1 \text{ mA}) = 200 \text{ V}$   
 $U_{g2g4} \text{ (ungeregelt)} = 125 \text{ V}$   
 $N_{g2+g4} = 1 \text{ W}$   
 $I_k = 12,5 \text{ mA}$   
 $R_{g1} = 3 \text{ M}\Omega$   
 $R_{g3} = 3 \text{ M}\Omega$   
 $U_{f/k} = 100 \text{ V}$   
 $R_{f/k} = 20 \text{ k}\Omega$

**Kapazitäten · Capacitances**

<b>Triode</b>	<b>Heptode</b>
$c_e = 2,6 \text{ pF}$	$c_e = 4,8 \text{ pF}$
$c_a = 2,1 \text{ pF}$	$c_a = 7,9 \text{ pF}$
$c_{ga} = 1 \text{ pF}$	$c_{g1a} < 0,006 \text{ pF}$
$c_{aH/aT} = 0,2 \text{ pF}$	$c_{g1/gT} < 0,17 \text{ pF}$