

ECF 80

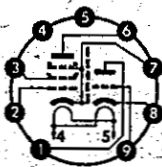
HF-Triode/
Pentode
Triode:
Oszillator
Pentode:
Mischer
für Fernseh-
Empfänger

RF triode/
pentode
Triode:
oscillator
Pentode:
mixer
for
TV receivers

Pico 9
Noval
Größe 8
Outlines 8

Stift · Pin

- | | |
|---|--------------------|
| 1 | a _T |
| 2 | g ₁ |
| 3 | g ₂ |
| 4 | f |
| 5 | f |
| 6 | a _P |
| 7 | k _P , s |
| 8 | k _T |
| 9 | g _T |



$U_f = 6,3 \text{ V}$
 $I_f \text{ ca. } 430 \text{ mA}$

indirekt geheizt
indir. heated

Triode

$U_a = 100 \text{ V}$
 $U_g = -2 \text{ V}$
 $I_a = 14 \text{ mA}$
 $S = 5 \text{ mA/V}$
 $\mu = 20$

Pentode

$U_a = 170 \text{ V}$
 $U_{g2} = 170 \text{ V}$
 $U_{g1} = -2 \text{ V}$
 $I_a = 10 \text{ mA}$
 $I_{g2} = 2,8 \text{ mA}$
 $S = 6,2 \text{ mA/V}$
 $R_i = 0,4 \text{ M}\Omega$
 $\mu_{g2g1} = 47$
 $r_{e100} = 2,5 \text{ k}\Omega$
 $r_{aeq} = 1,5 \text{ k}\Omega$

Pentode als Mischer

Pentode as mixer

U_a	=	170	170	V
U_{g2}	=	170	170	V
R_{g1}	=	0,1	0,1	M Ω
R_k	=	330	820	Ω
$U_{osz \text{ eff}}$	=	3,5	3,5	V
I_a	=	6,5	5,2	mA
I_{g2}	=	2	1,5	mA
I_{g1}	=	25	0	μA
S_c	=	2,2	2,1	mA/V
R_{ic}	=	800	870	k Ω

Kapazitäten · Capacitances

Triode

$c_e = 2,5 \text{ pF}$
 $c_a = 1,8 \text{ pF}$
 $c_{ga} = 1,5 \text{ pF}$

Pentode

$c_e = 5,2 \text{ pF}$
 $c_a = 3,4 \text{ pF}$
 $c_{g1a} < 0,025 \text{ pF}$

Triode

$U_a = 250 \text{ V}$
 $N_a = 1,5 \text{ W}$
 $I_k = 14 \text{ mA}$
 $R_g = 0,5 \text{ M}\Omega$
 $U_{f/k} = 100 \text{ V}$

Pentode

$U_a = 250 \text{ V}$
 $N_a = 1,7 \text{ W}$
 $U_{g2} (I_k \geq 10 \text{ mA}) = 175 \text{ V}$
 $U_{g2} (I_k \leq 10 \text{ mA}) = 200 \text{ V}$
 $N_{g2} = 0,5 \text{ W}$
 $N_{g2} (N_a \leq 1,2 \text{ W}) = 0,75 \text{ W}$
 $I_k = 14 \text{ mA}$
 $R_{g1} = 1 \text{ M}\Omega$
 $R_{g1}^{1)} = 0,5 \text{ M}\Omega$
 $U_{f/k} = 100 \text{ V}$

¹⁾ U_{g1} fest
fixed grid bias