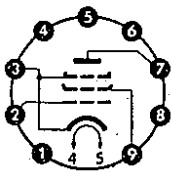


# PL 82

Leistungs-  
pentode ·  
für Vertikal-  
ablenk-  
Leistungsstufen  
in Fernseh-  
Empfängern  
NF-Leistungs-  
verstärker

Power  
pentode  
for vertical  
deflection  
stages in  
TV receivers  
AF power  
amplifiers

Pico 9  
Noval  
Größe 12  
Outlines 12  
Stift · Pin  
1 —  
2  $g_1$   
3  $k, g_3$   
4  $f$   
5  $f$   
6 —  
7  $a$   
8 —  
9  $g_2$



$I_f = 300 \text{ mA}$   
 $U_f \text{ ca. } 16,5 \text{ V}$   
indirekt geheizt  
indir. heated  
 $U_a = 170 \text{ V}$   
 $U_{g2} = 170 \text{ V}$   
 $U_{g1} = -10,4 \text{ V}$   
 $I_a = 53 \text{ mA}$   
 $I_{g2} = 10 \text{ mA}$   
 $S_{g1} = 9 \text{ mA/V}$   
 $R_i = 20 \text{ k}\Omega$   
 $\mu_{g2g1} = 10$

**Eintakt-A-Betrieb**  
AF amplifier, class A  
 $U_a = U_b = 170 \text{ } 200 \text{ V}$   
 $R_{g2} = \text{—} \text{ } 680 \text{ }\Omega$   
 $R_k = 165 \text{ } 260 \text{ }\Omega$   
 $I_a = 53 \text{ } 45 \text{ mA}$   
 $I_{g2} = 10 \text{ } 8,5 \text{ mA}$   
 $U_{g1 \text{ eff}} (N) = 6 \text{ } 7 \text{ V}$   
 $R_a = 3 \text{ } 4 \text{ k}\Omega$   
 $N (10\%) = 4 \text{ } 4,2 \text{ W}$   
 $U_{g1 \text{ eff}} (50 \text{ mW}) = 0,5 \text{ } 0,55 \text{ V}$

**Kapazitäten · Capacitances**  
 $c_e = 11 \text{ pF}$        $c_{g1a} < 1 \text{ pF}$   
 $c_a = 5,9 \text{ pF}$

**2 Röhren in Gegen-  
takt-A-Betrieb**  
2 tubes push-pull,  
class A  
 $U_a = 200 \text{ V}$   
 $U_{g2} = 200 \text{ V}$   
 $R_k^{1)} = 135 \text{ }\Omega$   
 $N (5\%) = 12 \text{ W}$   
 $R_{aa} = 4 \text{ k}\Omega$   
 $U_{g1 \text{ eff}} (N) = 13,5 \text{ V}$   
1) gemeinsam  
common

$U_a = 250 \text{ V}$   
 $U_{asp}^{2)} = 2,5 \text{ kV}$   
 $U_{asp} = -500 \text{ V}$   
 $N_a = 9 \text{ W}$   
 $U_{g2} = 250 \text{ V}$   
 $N_{g2} = 2,5 \text{ W}$   
 $I_k = 75 \text{ mA}$   
 $R_{g1}^{3)} = 1 \text{ M}\Omega$   
 $R_{g1}^{4)} = 0,4 \text{ M}\Omega$   
 $U_{f/k} = 200 \text{ V}$   
 $R_{f/k} = 20 \text{ k}\Omega$

2) Impulszeit max. 10%  
einer Periode,  
 $t_{\text{max}} = 2 \text{ ms}$   
Pulse time max. 10%  
per period,  
 $t_{\text{max}} = 2 \text{ ms}$   
3)  $U_{g1}$  mittels  $R_k$   
 $U_{g1}$  by  $R_k$   
4)  $U_{g1}$  fest  
fixed grid bias