Type	Allgemeine Daten General data		Betriebswerte Typical operation	Grenzwerte Maximum ratings

PL 81

Leistungspentode für Horizontal-Ablenkstufen in Fernseh-Empfängern NF-Leistungsverstärker

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

General data		Betriebswerte / Typical operation	Grenzwerte / Maximum ratings
Pico 9, Noval Größe 16 Outlines 16 Stift · Pin 1 — 2 g_1 3 k 4 f 5 f 6 g_3 7 — 8 g_2 9 g_3 Kappe a Cap a	$I_f = 300$ mA U_f ca. 21,5 V indirekt geheizt indir. heated $U_a = 170$ V $U_{g3} = 0$ V $U_{g2} = 170$ V $U_{g1} = -22$ V $I_a = 45$ mA $I_{g2} = 3$ mA $S = 6,2$ mA/V $R_i = 10$ kΩ $\mu_{g2g1} = 5,3$ $U_a = 200$ V $U_{g3} = 0$ V $U_{g2} = 200$ V $U_{g1} = -28$ V $I_a = 40$ mA $I_{g2} = 2,8$ mA $S = 6$ mA/V $R_i = 11$ kΩ $\mu_{g2g1} = 5,3$	**2 Röhren in Gegentakt-B-Betrieb** **2 tubes push-pull, class B** U_a = 170 / 200 V U_{g3} = 0 / 0 V U_{bg2} = 170 / 200 V R_{g2} [1] = 1 / 1 kΩ U_{g1} = -27 / -31,5 V I_{ao} = 2x 20 / 2x 25 mA I_a ausgest. = 2x 73 / 2x 87 mA I_{g20} = 2x1,5 / 2x 2 mA I_{g2} ausgest. = 2x 10 / 2x12,5 mA R_{aa} = 2,5 / 2,5 kΩ $U_{g1\,eff}$ (N) = 19 / 22,5 V N = 13,5 / 20 W k = 5,2 / 5,2 % 1) R_{g2} gemeinsam · R_{g2} common 2) Impulszeit max. 18 % einer Periode, Pulse time max. 18 % per period, $t_{max} = 18$ μs 3) Während der Anheizzeit der Boosterdiode During booster diode warm-up period $N_{g2\,max} = 6$ W 4) U_{g1} nur durch R_{g1} erzeugt U_{g1} produced by voltage drop across R_{g1} only **Kapazitäten · Capacitances** $c_e = 14,7$ pF $c_{ak} < 0,1$ pF $c_a = 6,4$ pF $c_{g1f} < 0,2$ pF $c_{g1a} < 0,8$ pF	U_{ao} = 550 V U_a = 250 V N_a = 8 W U_{g20} = 550 V U_{g2} = 250 V N_{g2} = 4,5 W $N_a + N_{g2}$ = 10 W I_k = 180 mA U_{g1e} (I_{g1} = +0,3 μA) = -1,3 V R_{g1} = 0,5 MΩ $U_{f/k}$ = 200 V $R_{f/k}$ = 20 kΩ **Als Endröhre für Horizontalablenkung** As power tube for horizontal deflection U_{asp} 2) = 6 kV U_{asp} 2) = -1,5 kV N_a = 7 W N_{g2} 3) = 4,5 W U_{g1sp} 2) = 3 V U_{g1sp} 2) = -1000 V R_{g1} 4) = 2,2 MΩ