

Netzröhre für GW-Heizung
indirekt geheizt
Serienspeisung

DC-AC-heating
indirectly heated
connected in series

PCL 200

TELEFUNKEN

Triode/Pentode

Vorläufige technische Daten · Tentative data

Triode/Pentode für Video-Endstufen und getastete Regelung in Fernseh-Geräten

Triode/Pentode for Video power stages and gated AGC in TV receivers

I_f **300** mA
 U_f ca. **15,5** V

Normierte Anheizzeit · Normalized heater warm-up time

Meßwerte · Measuring values

Triode

U_a **200** V
 I_a **8,5** mA
 U_{g1} **-1,5** V
 S **5,2** mA/V
 μ **55**

Pentode

U_a **150** V
 U_{g2} **220** V
 I_a **40** mA
 I_{g2} **8** mA
 U_{g1} **-2,1** V
 S **28** mA/V
 R_i **22** k Ω

Betriebswerte · Typical operation

Pentode

U_{ba} **220** **200** V
 U_{bg2} **220** **200** V
 R_a **3,6** **2,7** k Ω
 R_k **30** **18** Ω
 $I_k (U_{e\text{ eff}} = 0 \text{ V})$ **55** **62** mA
 $U_{e\text{ spsp}}$ **2,8** **2,9** V
(bei $U_{a\text{ spsp}} = 100 \text{ V}$)



Nennwert-Grenzdaten · Design centre ratings

Triode

U_{a0}	550	V
U_a	250	V
$U_{a\text{sp}}^1$ ($I_a < 0,1 \text{ mA}$)	600	V
N_a	1,7	W
I_k	15	mA
$R_{g1}^{2)}$	0,5	M Ω
$U_{f/k}$	200	V

Pentode

U_{a0}	550	V
U_a	250	V
N_a	6	W
U_{g20}	550	V
U_{g2}	250	V
N_{g2}	2,5	W
I_k	85	mA
$R_{g1}^{2)}$	0,5	M Ω
$U_{f/k}^{3)}$	200	V

Kapazitäten · Capacitances

Triode

C_e	3,2	pF
$C_a^4)$	4,4	pF
$C_{a/g}$	2,5	pF

Pentode

C_e	14,5	pF
C_a	ca. 5,8	pF
$C_{a/g1}$	0,07	pF

zwischen Triode/Pentode

between triode/pentode

$C_{aP/aT}$	< 0,2	pF
$C_{g1/gT}$	< 0,01	pF
$C_{aT/g1}$	< 0,015	pF
$C_{aP/gT}$	< 0,05	pF

1) Maximale Impulsdauer 18% einer Periode, t_{max} 18 μs .
Maximum pulse duration 18% of a period, t_{max} 18 μs .

2) $U_{g\text{fest}}$ · fixed grid bias

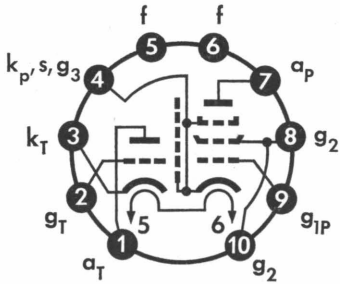
3) Gleichspannungskomponente max. 100 V
DC voltage component max. 100 V

4) Beide Kathoden verbunden · The two Cathodes connected



Sockelschaltung

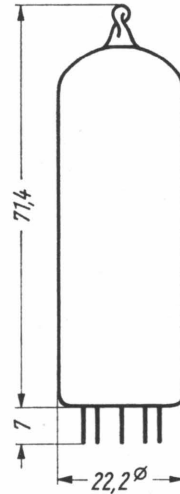
Basing diagram



Dekal

Max. Abmessungen

max. dimensions



Gewicht • Weight

max. 20 g

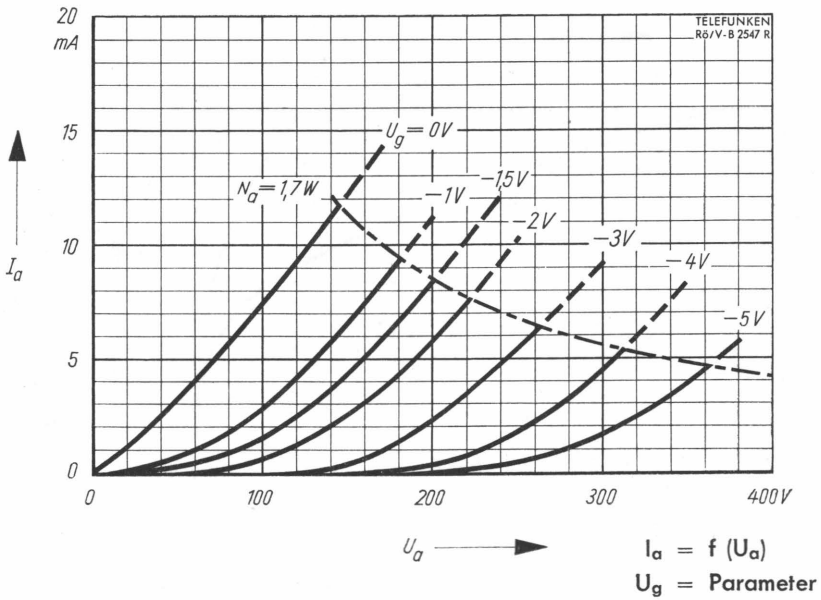
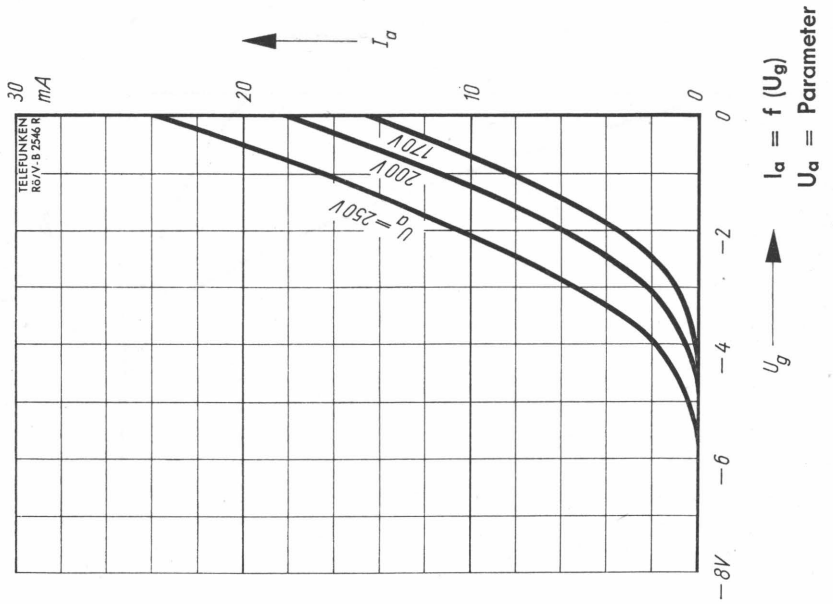
Einbaulage beliebig

Mounting position: any

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.

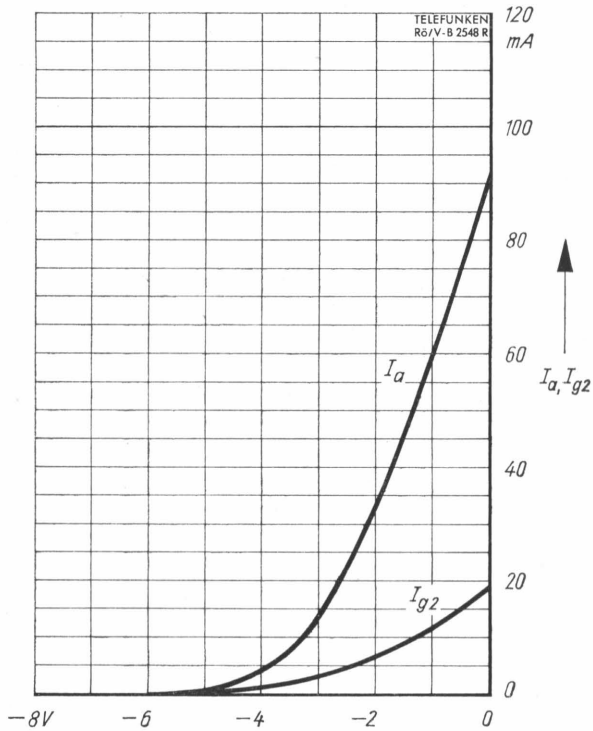
If necessary special precautions must be taken to prevent the tube from becoming dislodged from the socket.





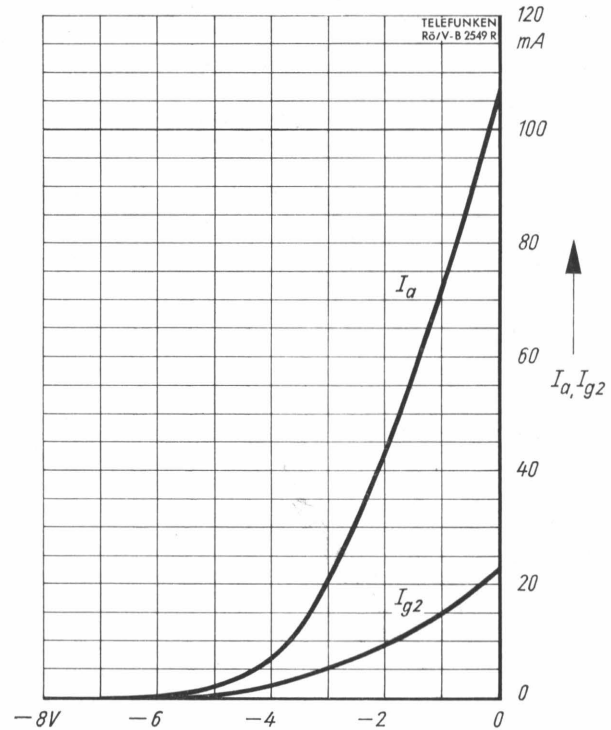
Triode





U_{g1} →

$$I_a, I_{g2} = f(U_{g1})$$
$$U_a = 150 \text{ V}$$
$$U_{g2} = 200 \text{ V}$$



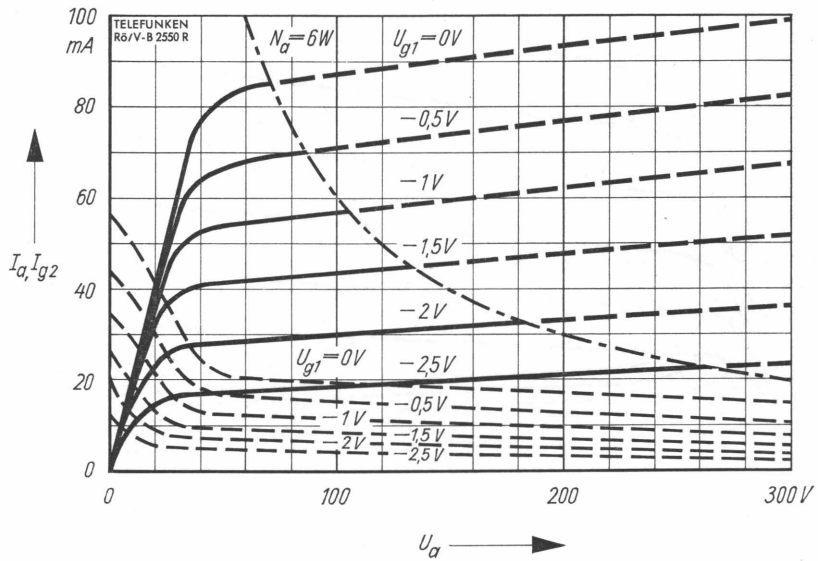
U_{g1} →

$$I_a, I_{g2} = f(U_{g1})$$
$$U_a = 150 \text{ V}$$
$$U_{g2} = 220 \text{ V}$$

Pentode

PCL200

TELEFUNKEN



$$I_a, I_{g2} = f(U_a)$$

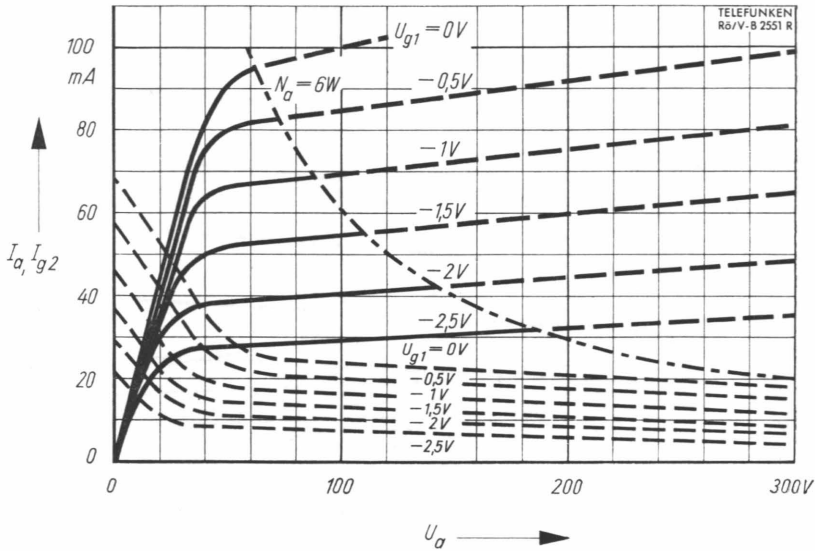
$$U_{g2} = 200 V$$

$$U_{g1} = \text{Parameter}$$

— I_a - - - I_{g2}

Pentode





$$I_a, I_{g2} = f(U_a)$$

$$U_{g2} = 220 \text{ V}$$

$$U_{g1} = \text{Parameter}$$

— I_a - - - I_{g2}

Pentode

