

Triode **Reaktanzröhre** · Reactance tube
Pentode **Sinusoszillator und Impulsformer in FS-Geräten**
Sine oscillator and pulse shaper in TV sets

U_f **6,3** V
 I_f ca. 450 mA

Meßwerte · Measuring values

Triode			Pentode		
U_a	200	V	U_a	100	200 V
U_g	-2	V	U_{g2}	100	200 V
I_a	3,5	mA	U_{g1}	0	-1 V
S	3,5	mA/V	I_a	12,5	6 $\leq 0,01$ mA
μ	70		I_{g2}	3,5	1,7 mA
$I_a (I_g = 10 \mu A)$	10	mA	S	5,5	mA/V
			$\mu_{g2/g1}$	47	

Nennwert-Grenzdaten · Design centre ratings

Triode			Pentode		
U_{ao}	550	V	U_{ao}	550	V
U_a	250	V	U_a	300	V
N_a	1,4	W	N_a	1,2	W
$U_{ge} (I_g \leq +0,3 \mu A)$	-1,3	V	U_{g2o}	550	V
R_{g2}	3	M Ω	U_{g2}	250	V
I_k	10	mA	N_{g2}	0,8	W
$U_{f/k}^4)$	100	V	U_{g1sp}	-200	V
$R_{f/k}$	20	k Ω	$U_{g1e} (I_{g1} \leq +0,3 \mu A)$	-1,3	V
$Z_g (50 \text{ Hz})$	50	k Ω	$R_{g1}^1)$	1	M Ω
			$R_{g1}^2)$	0,56	M Ω
			I_k	15	mA
			$I_{ksp}^3)$	50	mA
			$U_{f/k}$	100	V
			$R_{f/k}$	20	k Ω
			$Z_{g1} (50 \text{ Hz})$	300	k Ω

1) U_{g1} mittels $R_k \cdot U_{g1}$ by R_k

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

3) Tastverhältnis max. 30 %
Impulsdauer max. 30 μs
duty cycle max. 30 %
pulse duration max. 30 μs

4) Zum Vermeiden von Brummstörungen soll die Wechselspannungskomponente von $U_{f/k}$ so klein wie möglich sein und darf einen Effektivwert von 65 V nicht überschreiten.

To prevent hum interference the AC voltage component of $U_{f/k}$ should be as small as possible and must not exceed 65 V r.m.s.



Kapazitäten · Capacitances

Triode

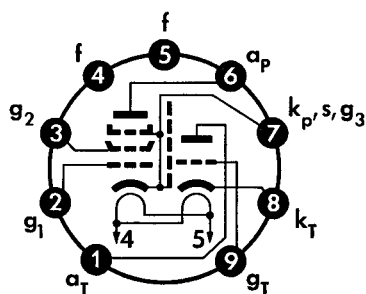
c_e	2,4	pF
$c_{a/g}$	1,5	pF
$c_{a/f}$	< 0,1	pF

Pentode

c_e	5,4	pF
c_{a/g_1}	0,06	pF
$c_{g_1/f}$	< 0,1	pF

Sockelschaltbild

Basing diagram



Pico 9 · Noval

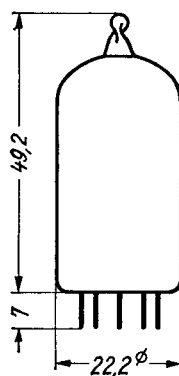
Einbau: beliebig

Mounting position: any

max. Abmessungen

max. dimensions

DIN 41 539, Nenngröße 40, Form A



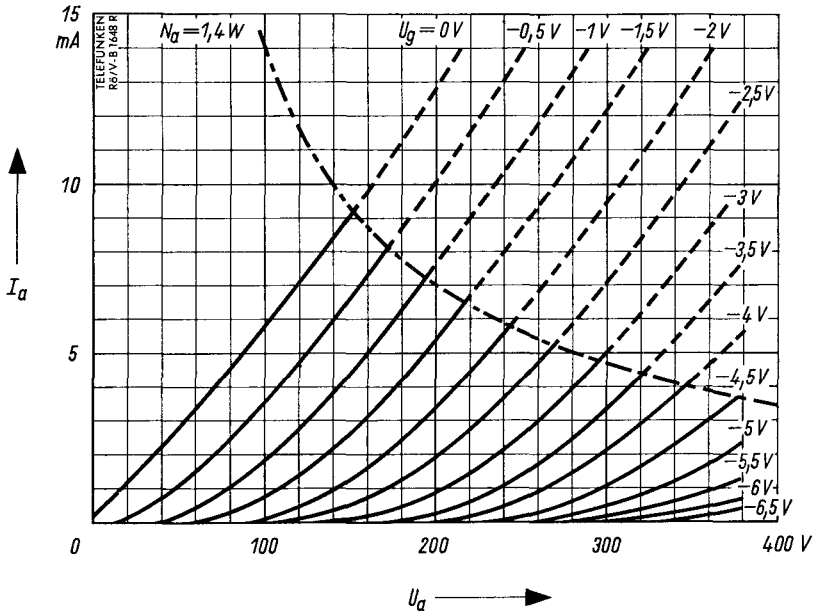
Gewicht · Weight

max. 16 g

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.



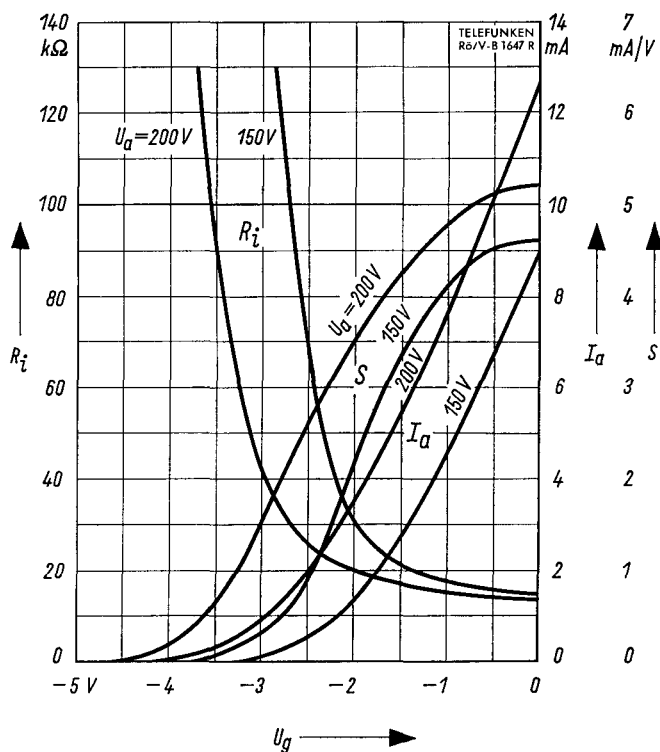


$$I_a = f(U_a)$$

$U_g = \text{Parameter}$

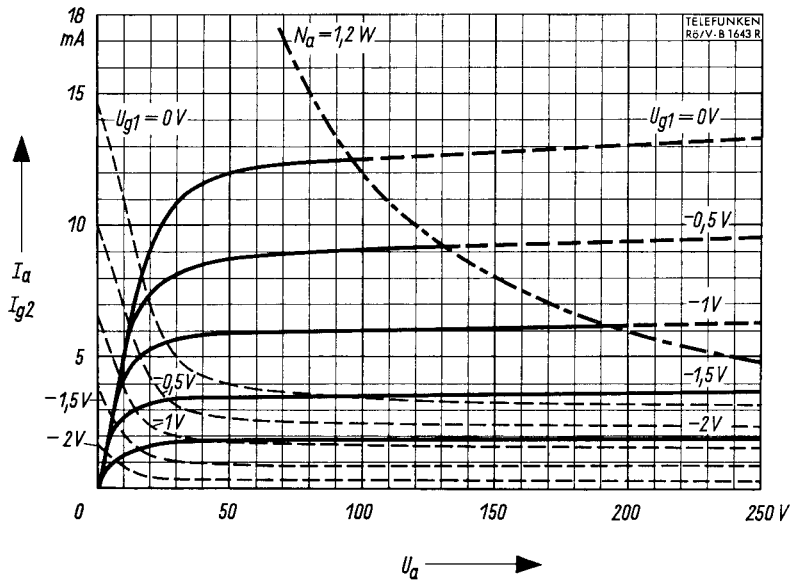
Triode




 $I_a, S, R_i = f(U_g)$
 $U_a = \text{Parameter}$

Triode

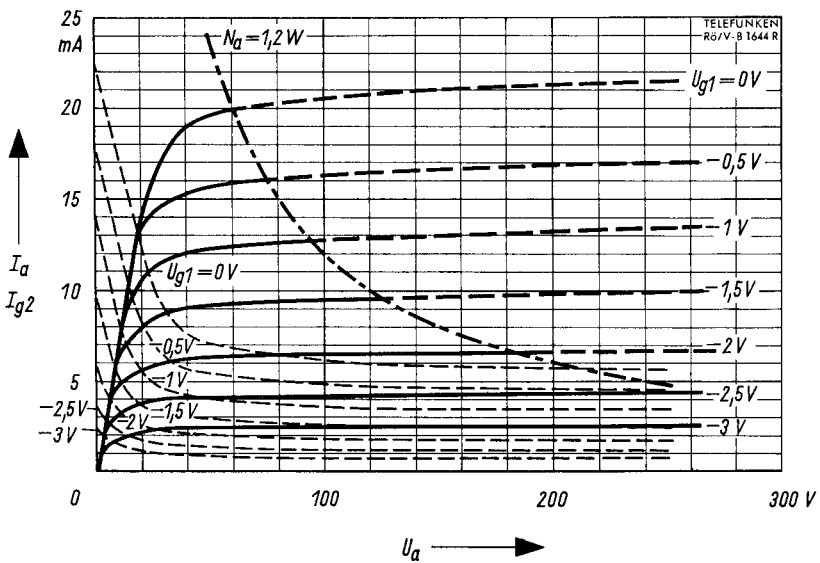




$$I_a, I_{g2} = f(U_a)$$

$$U_{g2} = 100 \text{ V}$$

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



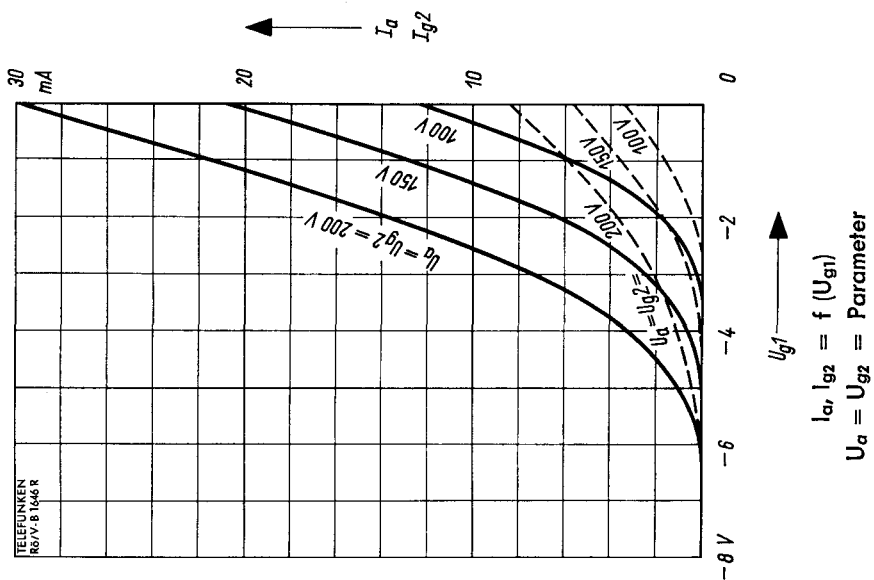
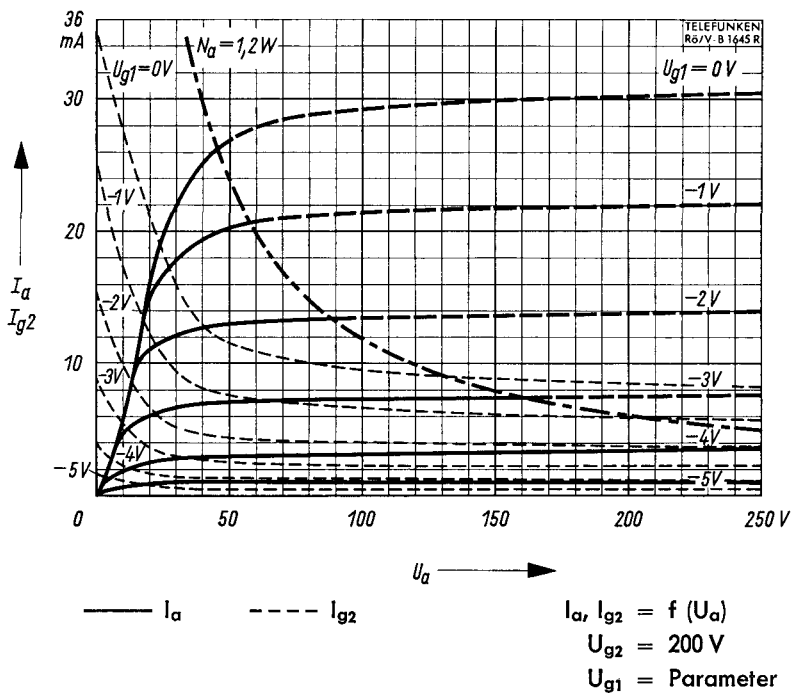
$$I_a, I_{g2} = f(U_a)$$

$$U_{g2} = 150 \text{ V}$$

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

Pentode





Pentode

