

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

1)  $U_{g1}$  mittels  $R_k$  ·  $U_{g1}$  by  $R_k$

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

3) Tastverhältnis max. 30 %

Impulsdauer max. 30  $\mu s$

duty cycle max. 30 %

pulse duration max. 30  $\mu s$

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

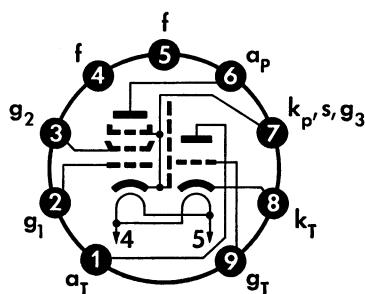
|           |       |    |
|-----------|-------|----|
| $c_e$     | 2,4   | pF |
| $c_{a/g}$ | 1,5   | pF |
| $c_{a/f}$ | < 0,1 | pF |

## 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

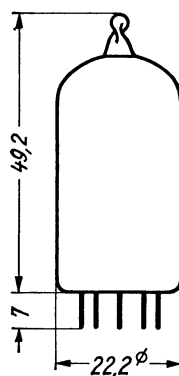
Einbau: beliebig

Mounting position: any

## max. Abmessungen

max. dimensions

DIN 41 539, Nenngröße 40, Form A



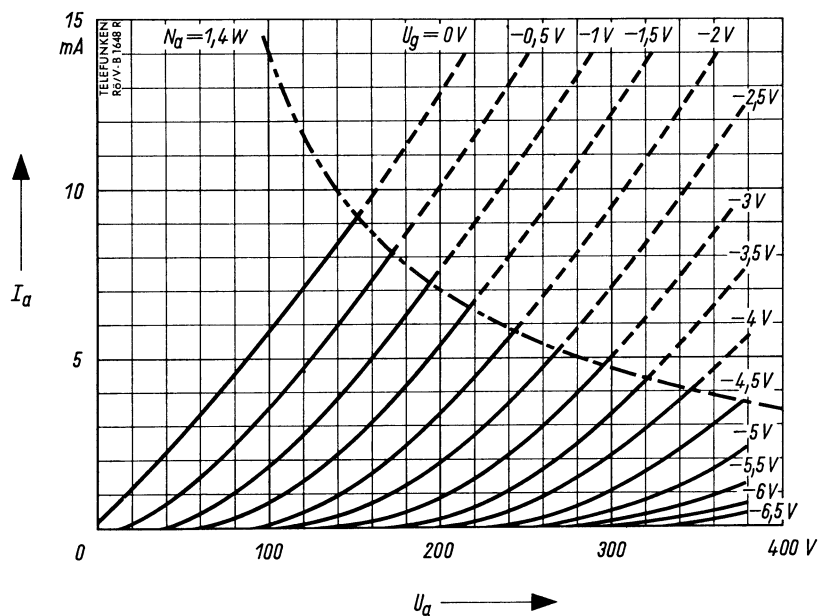
## Gewicht · Weight

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.

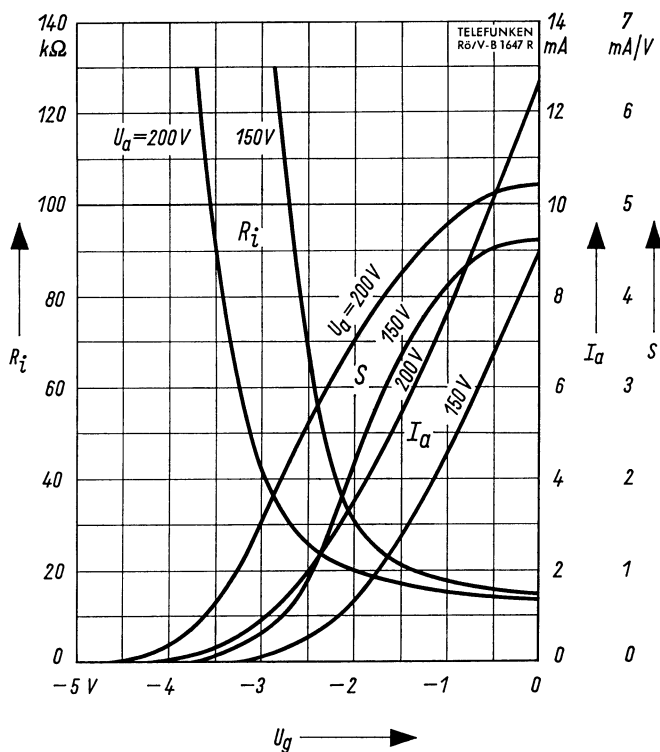




$$I_a = f(U_a)$$

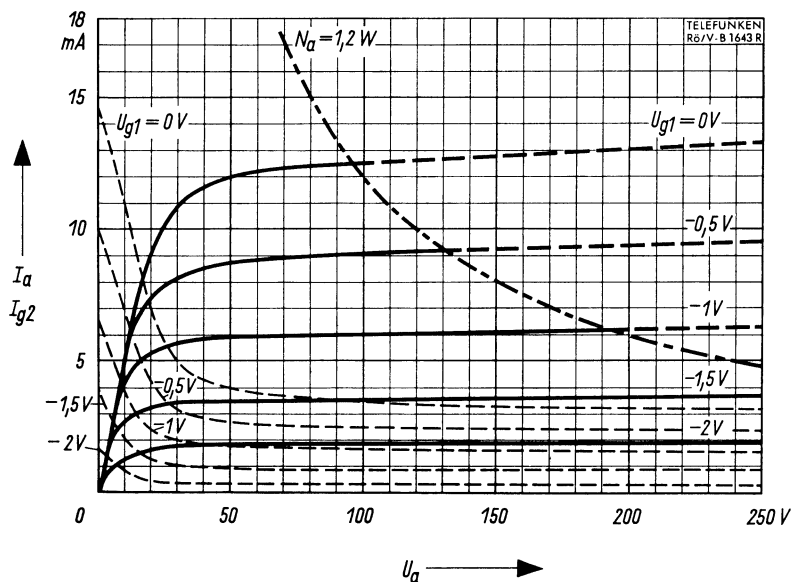
$U_g = \text{Parameter}$

Triode

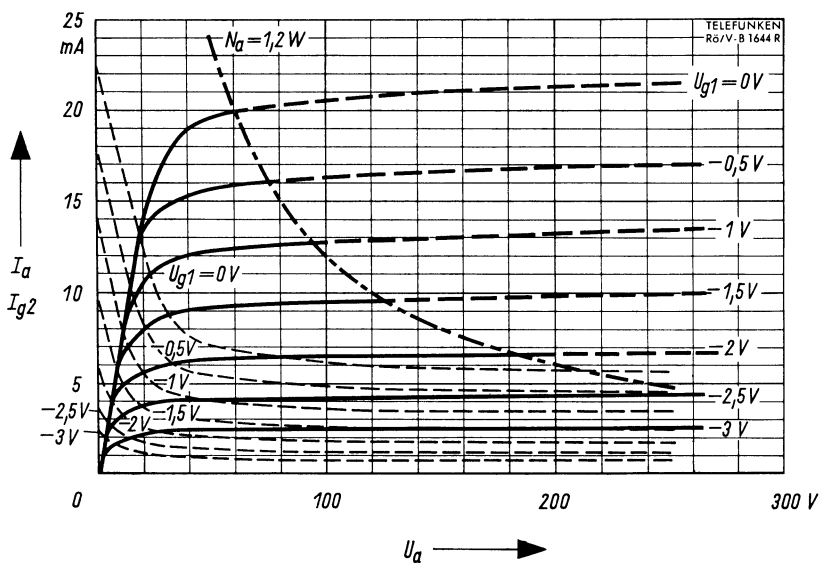

 $I_a, S, R_i = f(U_g)$ 
 $U_a = \text{Parameter}$ 

Triode





$I_a, I_{g2} = f(U_a)$   
 $U_{g2} = 100\text{ V}$   
 $U_{g1} = \text{Parameter}$

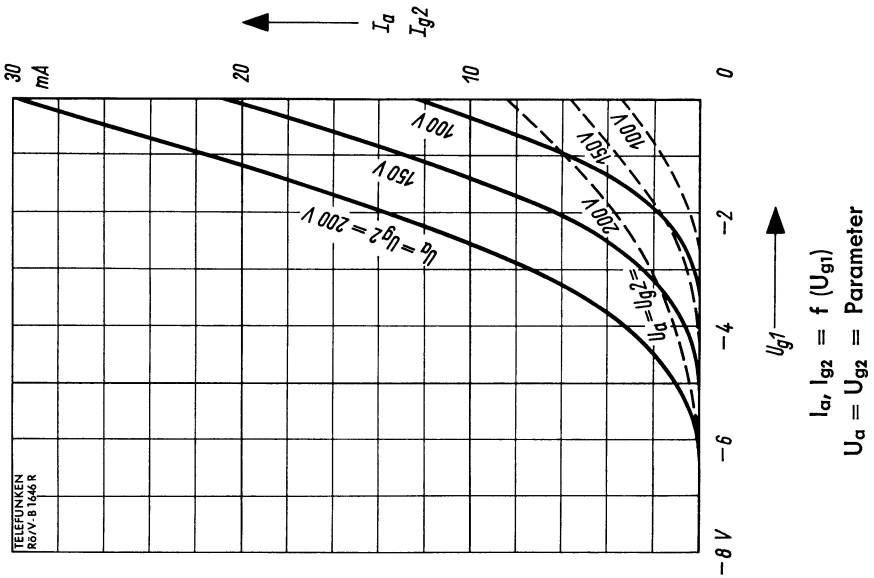
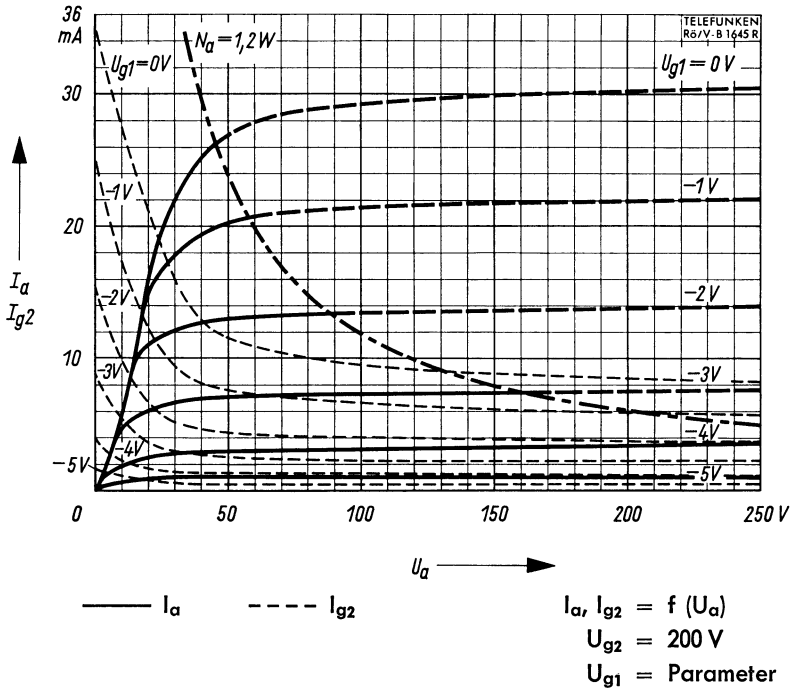


—  $I_a$       - - -  $I_{g2}$

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

**Pentode**





Pentode

