

Netzröhre für GW-Heizung  
Indirekt geheizt  
Parallelspeisung

DC-AC-Heating  
Indirectly heated  
connected in parallel

# TELEFUNKEN

ECF 802

Triode / Pentode

**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	-16	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		
$U_{a0}$	<b>550</b>	V	$U_{a0}$	<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	$U_{g20}$	<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  $R_k \cdot U_{g1}$  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**

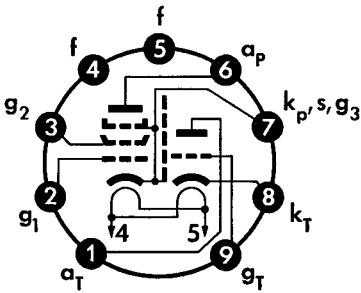
$c_e$	2,4	pF
$c_{a/g}$	1,5	pF
$c_{a/f}$	< 0,1	pF

**Pentode**

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

**Sockelschaltbild**

Basing diagram



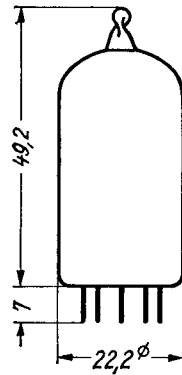
**Pico 9 · Noval**

**Einbau: beliebig**  
Mounting position: any

**max. Abmessungen**

max. dimensions

DIN 41 539, Nenngröße 40, Form A

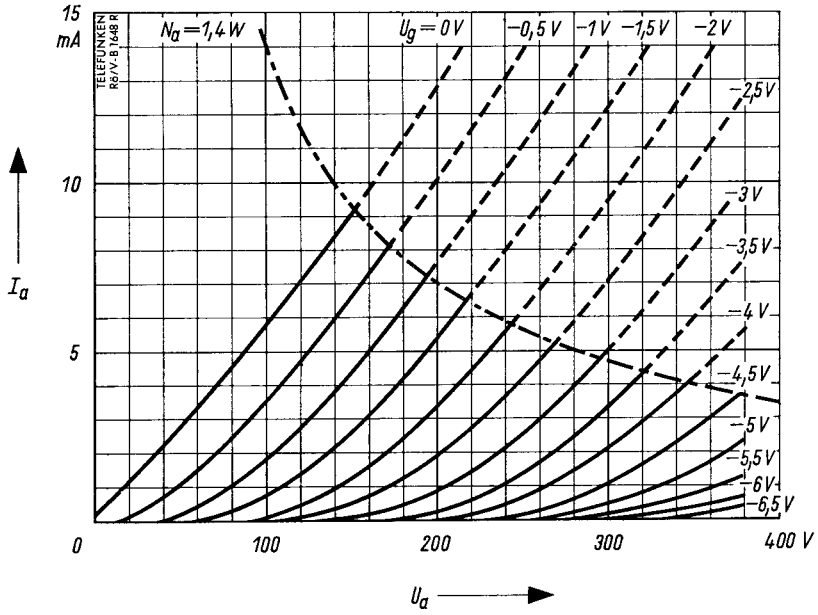


**Gewicht · Weight**  
max. 16 g

**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.

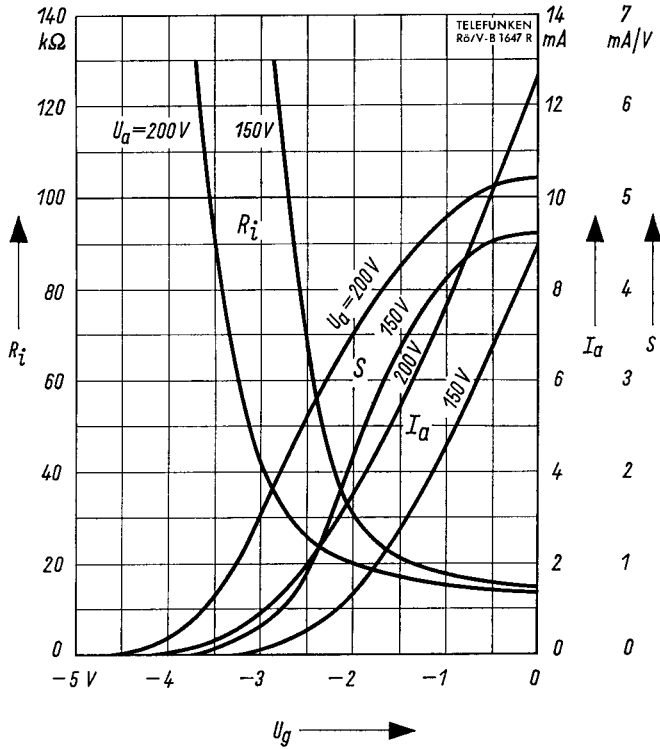




$I_a = f(U_a)$   
 $U_g = \text{Parameter}$

**Triode**

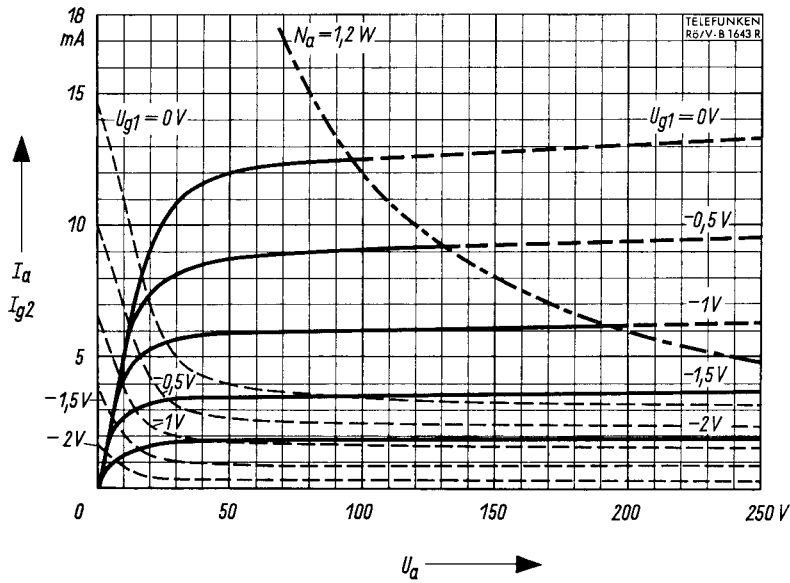




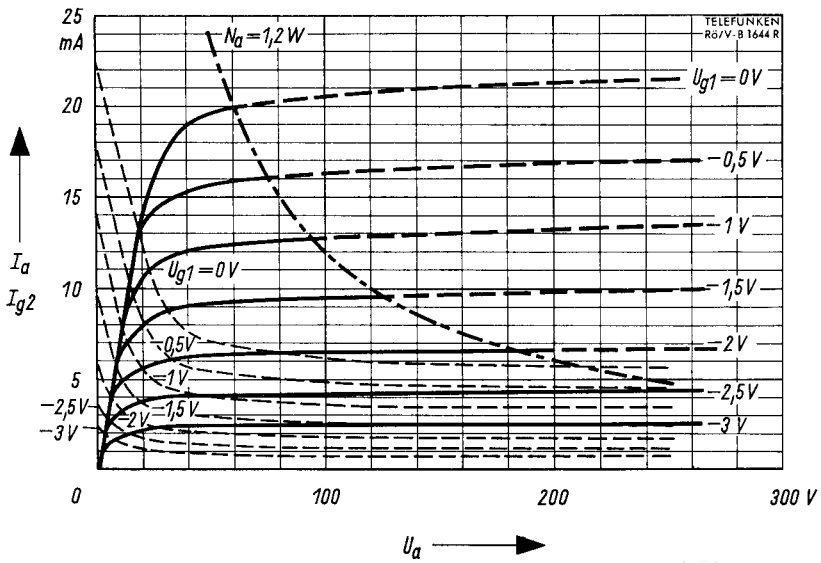
$I_a, S, R_i = f(U_g)$   
 $U_a = \text{Parameter}$

Triode





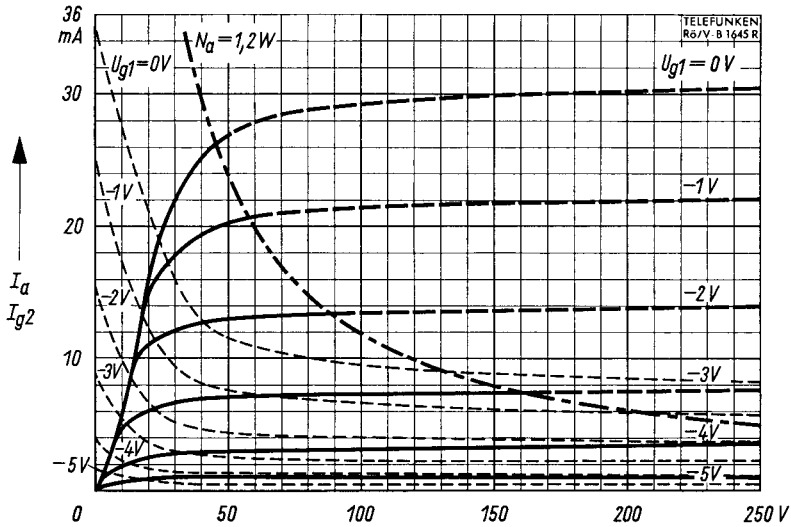
$I_a, I_{g2} = f(U_a)$   
 $U_{g2} = 100 V$   
 $U_{g1} = \text{Parameter}$



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

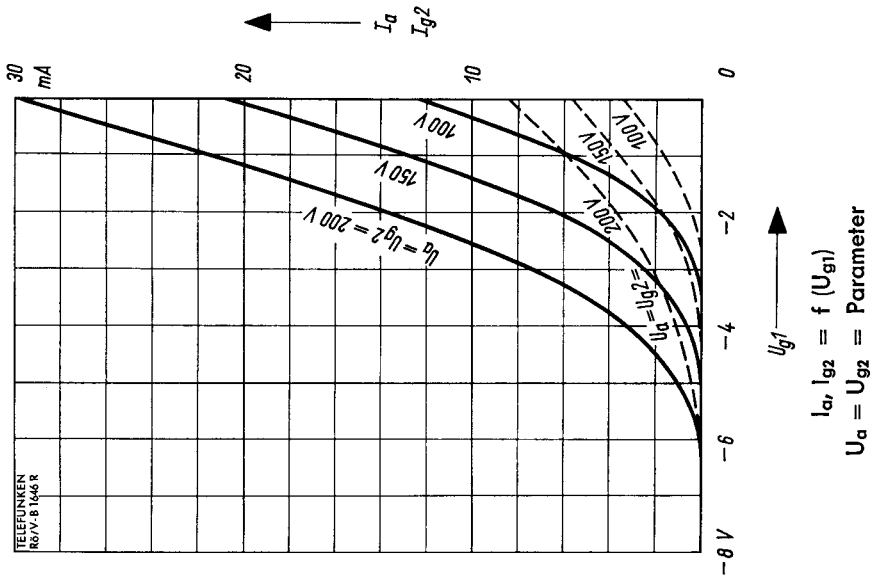
—  $I_a$     - - -  $I_{g2}$





—  $I_a$     - - -  $I_{g2}$

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



Pentode

