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			
U_a	**200**	V	
U_g	−2	V	
I_a	3,5	mA	
S	3,5	mA/V	
μ	70		
I_a (I_g = 10 µA)	10	mA	

Pentode				
U_a		**100**	**200**	V
U_{g2}		**100**	**200**	V
U_{g1}	0	−1	−16	V
I_a	12,5	6	≦ 0,01	mA
I_{g2}	3,5	1,7		mA
S		5,5		mA/V
$\mu_{g2/g1}$		47		

Nennwert-Grenzdaten · Design centre ratings

Triode		
U_{ao}	**550**	V
U_a	**250**	V
N_a	**1,4**	W
U_{ge} (I_g ≦ +0,3 µA)	**−1,3**	V
R_g [2]	**3**	MΩ
I_k	**10**	mA
$U_{f/k}$ [4]	**100**	V
$R_{f/k}$	**20**	kΩ
Z_g (50 Hz)	**50**	kΩ

Pentode		
U_{ao}	**550**	V
U_a	**300**	V
N_a	**1,2**	W
U_{g2o}	**550**	V
U_{g2}	**250**	V
N_{g2}	**0,8**	W
U_{g1sp}	**−200**	V
U_{g1e} (I_{g1} ≦ +0,3 µA)	**−1,3**	V
R_{g1} [1]	**1**	MΩ
R_{g1} [2]	**0,56**	MΩ
I_k	**15**	mA
I_{ksp} [3]	**50**	mA
$U_{f/k}$	**100**	V
$R_{f/k}$	**20**	kΩ
Z_{g1} (50 Hz)	**300**	kΩ

[1] U_{g1} mittels R_k · U_{g1} by R_k

[2] $U_{g\,fest}$ · fixed grid bias

[3] **Tastverhältnis max. 30 %**
Impulsdauer max. 30 µs
duty cycle max. 30 %
pulse duration max. 30 µs

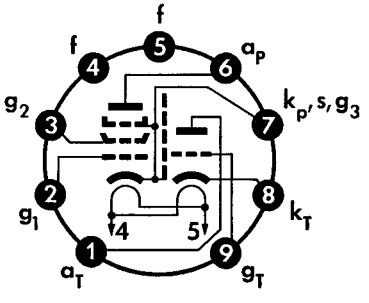
[4] **Zum Vermeiden von Brummstörungen soll die Wechselspannungskomponente von $U_{f/k}$ so klein wie möglich sein und darf einen Effektivwert von 65 V nicht überschreiten.**
To prevent hum interference the AC voltage component of $U_{f/k}$ should be as small as possible and must not exceed 65 V r.m.s.

TELEFUNKEN

Kapazitäten · Capacitances

Triode				Pentode			
c_e		2,4	pF	c_e		5,4	pF
$c_{a/g}$		1,5	pF	$c_{a/g1}$		0,06	pF
$c_{a/f}$	<	0,1	pF	$c_{g1/f}$	<	0,1	pF

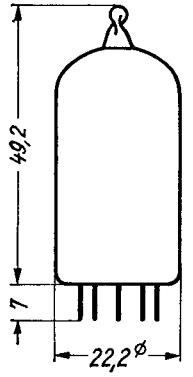
Sockelschaltbild
Basing diagram



Pico 9 · Noval

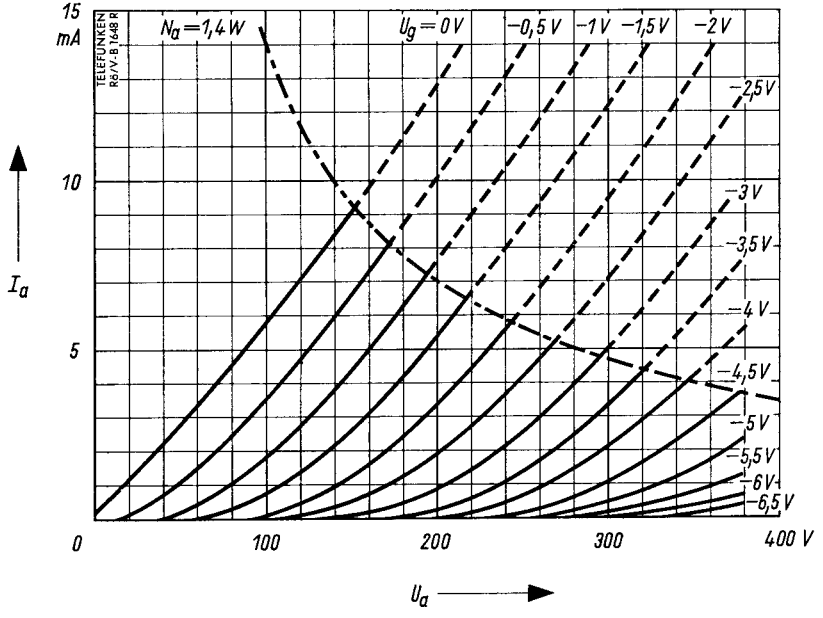
Einbau: beliebig
Mounting position: any

max. Abmessungen
max. dimensions
DIN 41 539, Nenngröße 40, Form A



Gewicht · Weight
max. 16 g

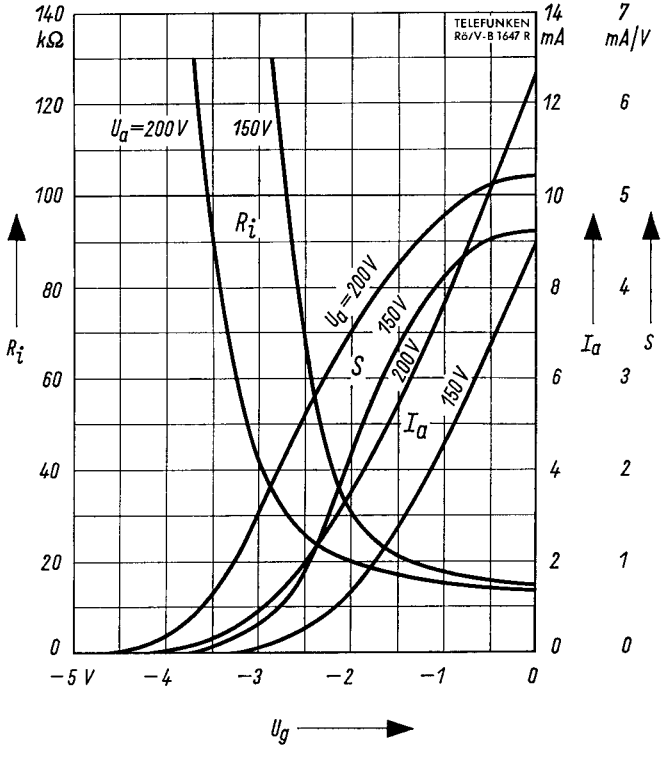
Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
If necessary special precautions must be taken to prevent the tube from becoming dislodged from the socket.



$I_a = f(U_a)$
U_g = Parameter

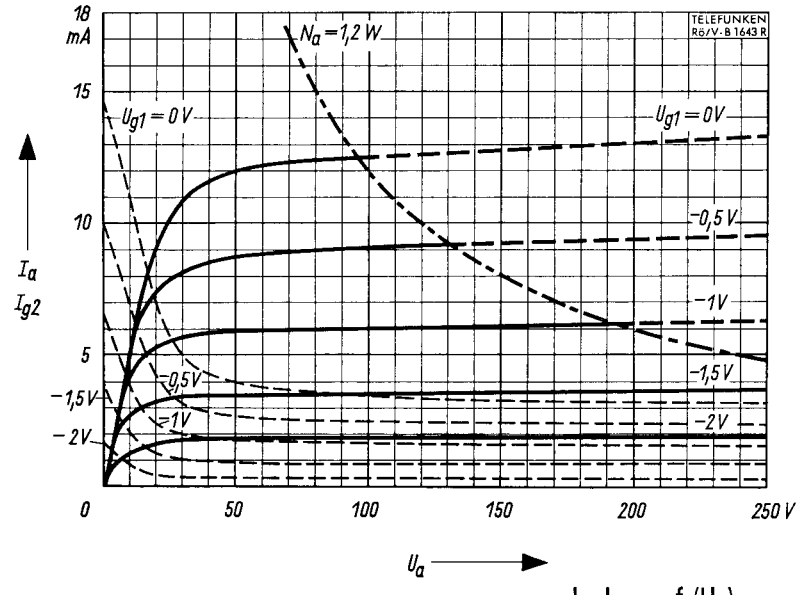
Triode

TELEFUNKEN

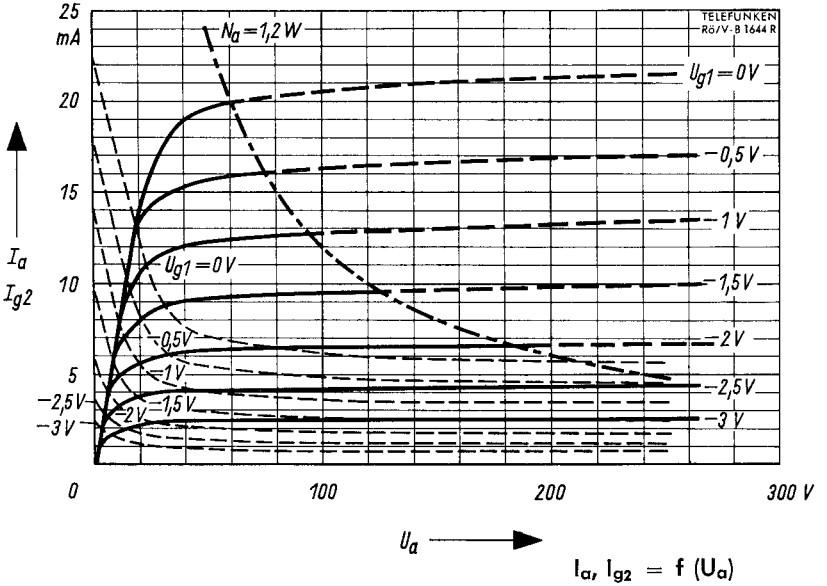


I_a, S, R_i = f (U_g)
U_a = Parameter

Triode



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

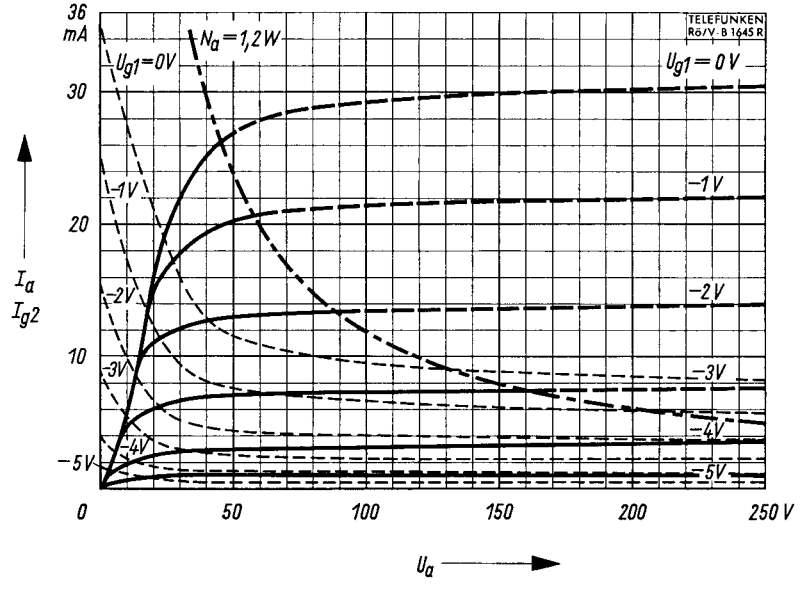


——— I_a - - - - I_{g2}

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

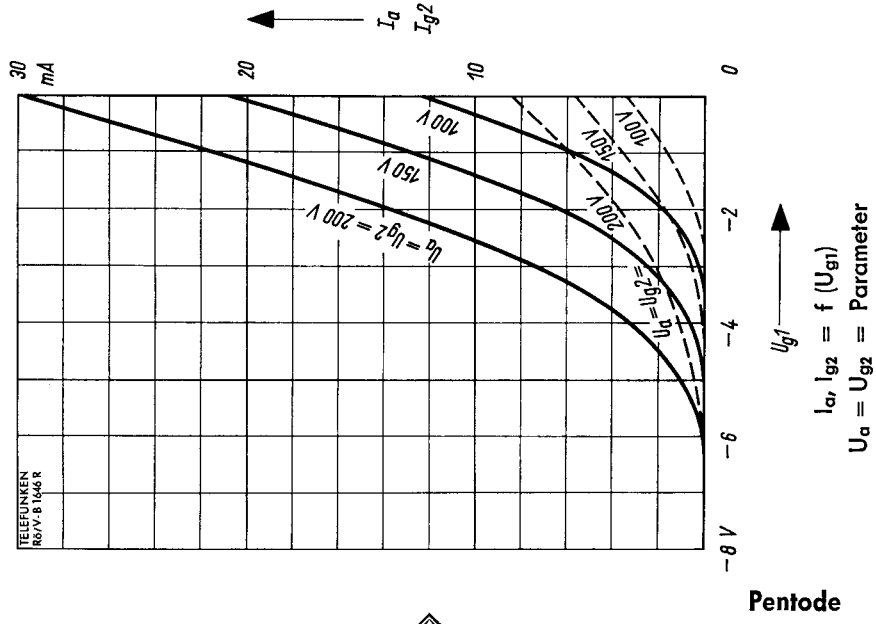
Pentode

TELEFUNKEN



——— I_a ---- I_{g2}

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



$I_a, I_{g2} = f(U_{g1})$
$U_a = U_{g2}$ = Parameter

Pentode