

Netzröhre für GW-Heizung
indirekt geheizt
Parallel- oder Serienschaltung

TELEFUNKEN

EF 183

DC-AC-heating
indirectly heated
connected in parallel or series

Regelbare steile HF-Pentode
Remote cutoff RF-pentode

Vorläufige technische Daten · Tentative data

U_f **6,3** V
 I_f **300** mA

Normierte Anheizzeit · Normalize heating-up time

Meßwerte · Measuring values

U_a	200	V
U_{g3}	0	V
U_{g2}	90	V
U_{g1}	-2	V
I_a	12	mA
I_{g2}	4,5	mA
S	12,5	mA/V
R_i	500	k Ω
r_e (40 MHz) ¹⁾	10	k Ω

¹⁾ Stift 1 und Stift 3 verbunden
Pin 1 connected to pin 3

Betriebswerte · Typical operation

Es wird ein Betrieb mit Kathoden- und/oder Schirmgitterwiderstand empfohlen.
Operation with cathode and/or screen grid resistor is recommended.

U_a	170		200		230	V	
U_{g3}	0		0		0	V	
U_{bg2}	170		200		230	V	
R_{g2}	15		24		39	k Ω	
U_{g1}	-1,8	-7,5	-2	-9,5	-2,1	-12	V
I_a	14	2,7	12	2,7	10,5	2,4	mA
S	14	0,7	12,5	0,62	10,6	0,5	mA/V



Grenzwerte • Maximum ratings

U_{a0}	550	V
U_a	250	V
N_a	2,5	W
U_{g20}	550	V
U_{g2}	250	V
N_{g2}	0,65	W
U_{g1sp}	- 50	V
I_k	20	mA
$R_{g1}^{1)}$	0,5	M Ω
$R_{g1}^{2)}$	1	M Ω
R_{g3}	50	k Ω
U_{fk}	150	V
R_{fk}	20	k Ω

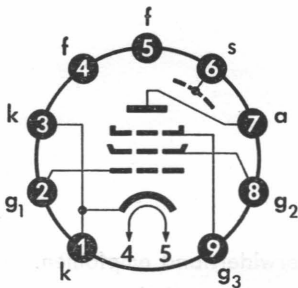
Kapazitäten • Capacitances

C_e	9,5	pF
C_a	3	pF
C_{g1a}	< 0,0055	pF

1) U_{g1} fest • fixed grid bias

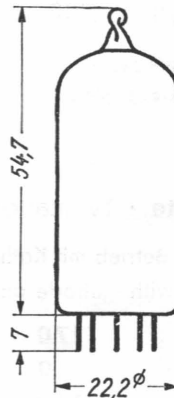
2) U_{g1} autom. • cathode grid bias

Sockelschaltbild
Base connection



Pico 9 • Noval

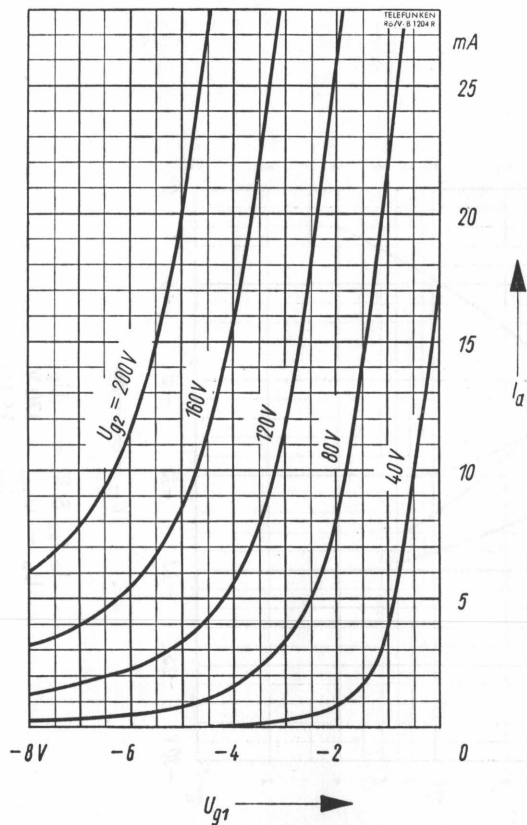
max. Abmessungen
max. dimensions
DIN 41539, Nenngröße 45, Form A



Gewicht • Weight
max. 16 g

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
Special precaution must be taken to prevent the tube from becoming dislodged.



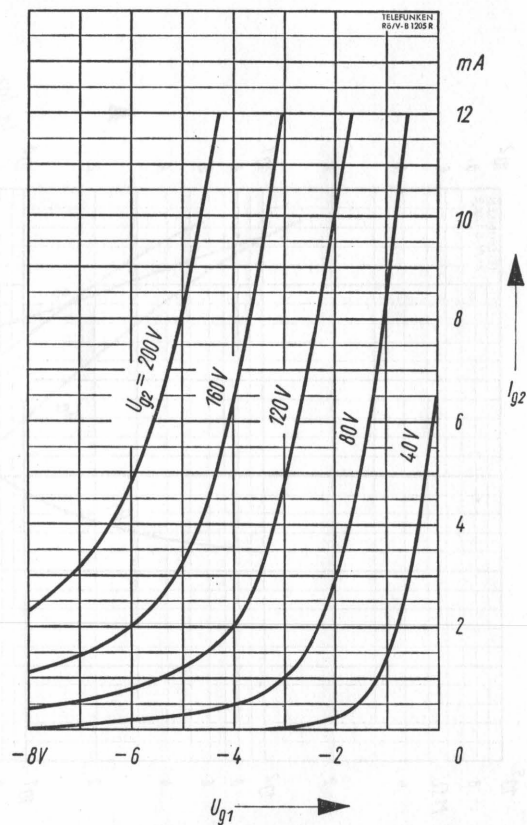


$$I_a = f(U_{g1})$$

$$U_a = 170 \dots 230 \text{ V}$$

$$U_{g3} = 0 \text{ V}$$

$$U_{g2} = \text{Parameter}$$



$$I_{g2} = f(U_{g1})$$

$$U_a = 170 \dots 230 \text{ V}$$

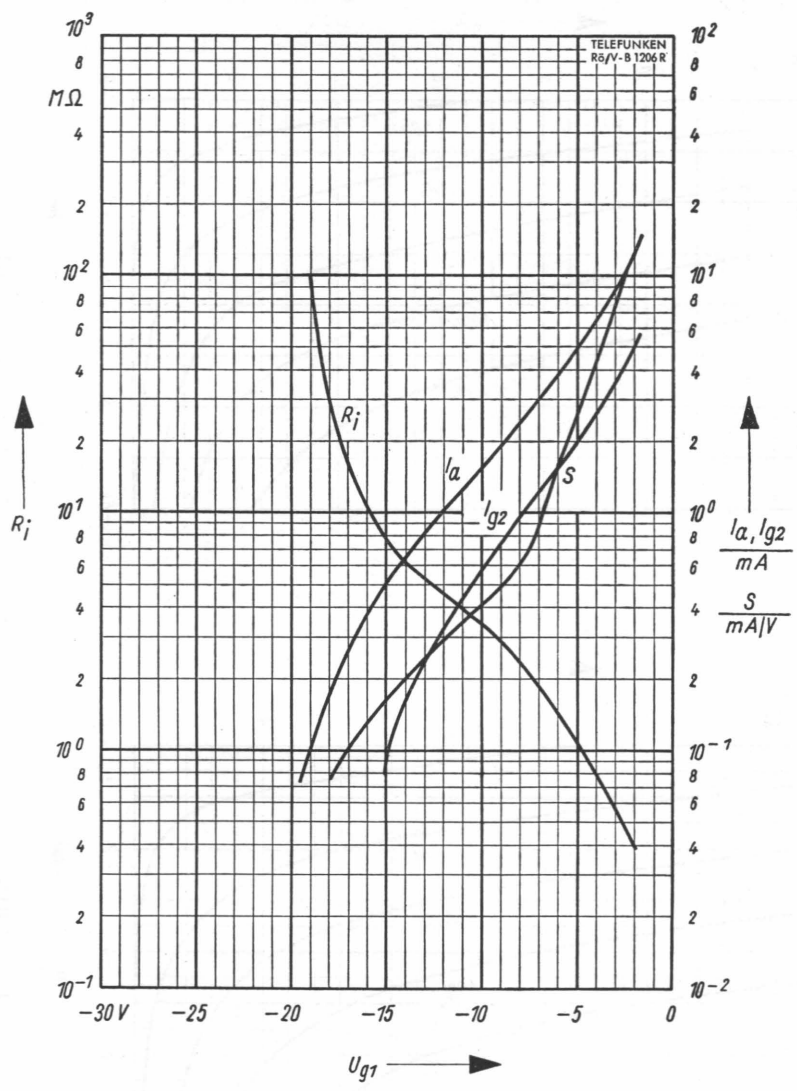
$$U_{g3} = 0 \text{ V}$$

$$U_{g2} = \text{Parameter}$$

TELEFUNKEN

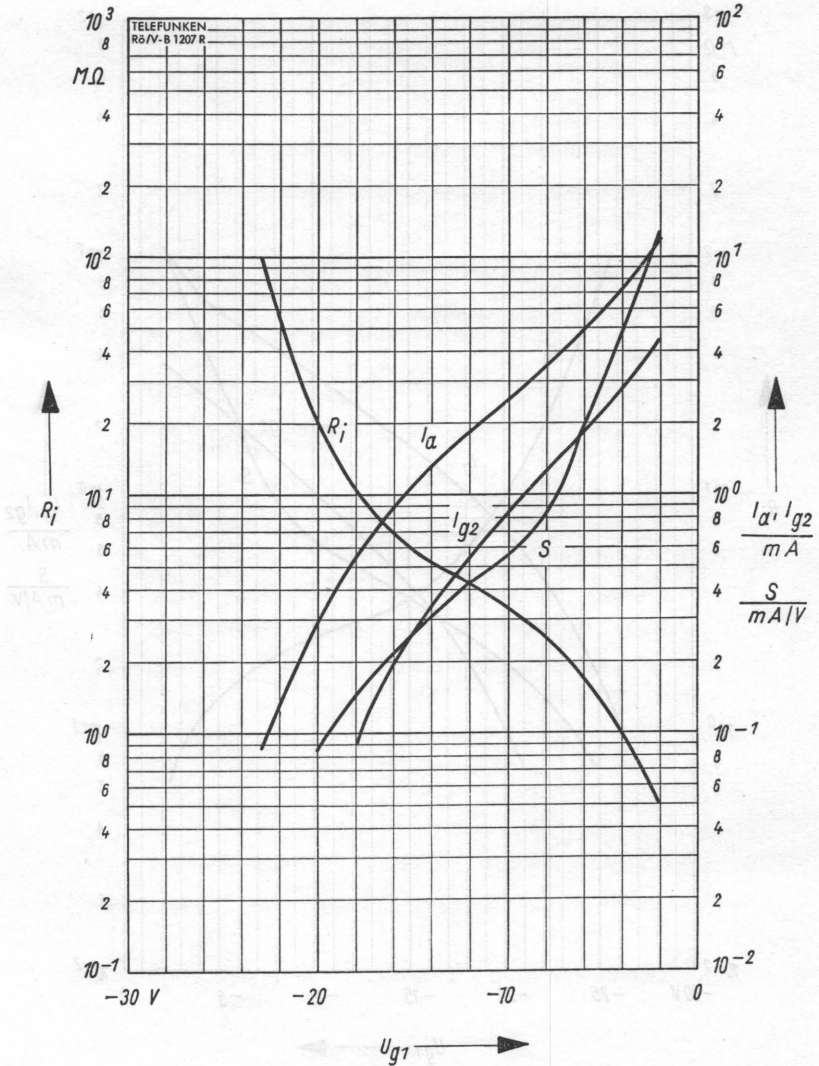
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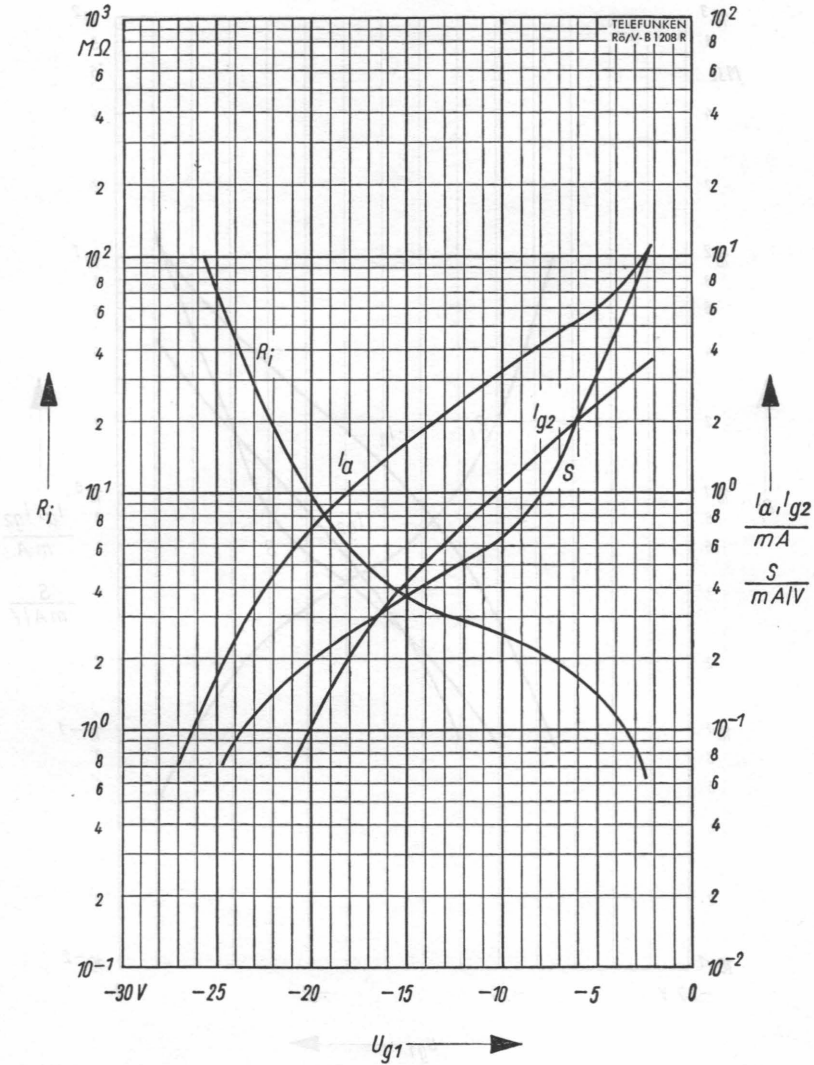
$I_a, I_{g2}, S, R_i = f(U_{g1})$
 $U_a = U_{bg2} = 170 V$
 $R_{g2} = 15 k\Omega$
 $U_{g3} = 0 V$





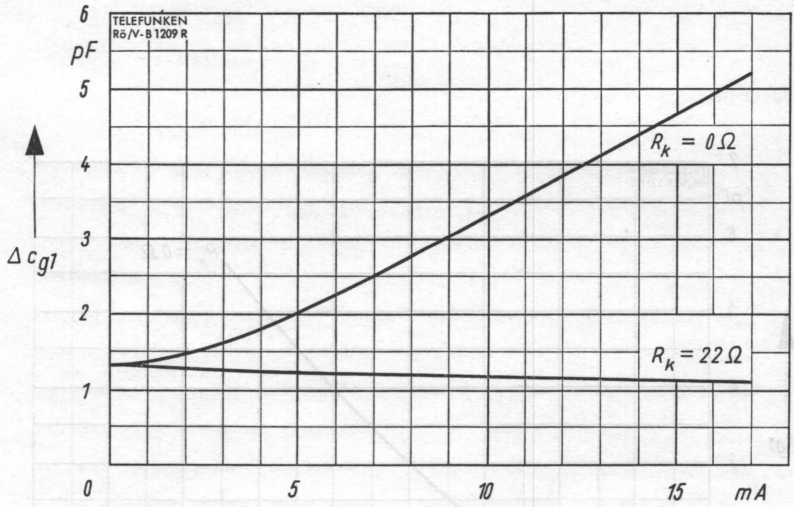
$I_a, I_{g2}, S, R_i = f(U_{g1})$
 $U_a = U_{bg2} = 200$ V
 $R_{g2} = 24$ k Ω
 $U_{g3} = 0$ V



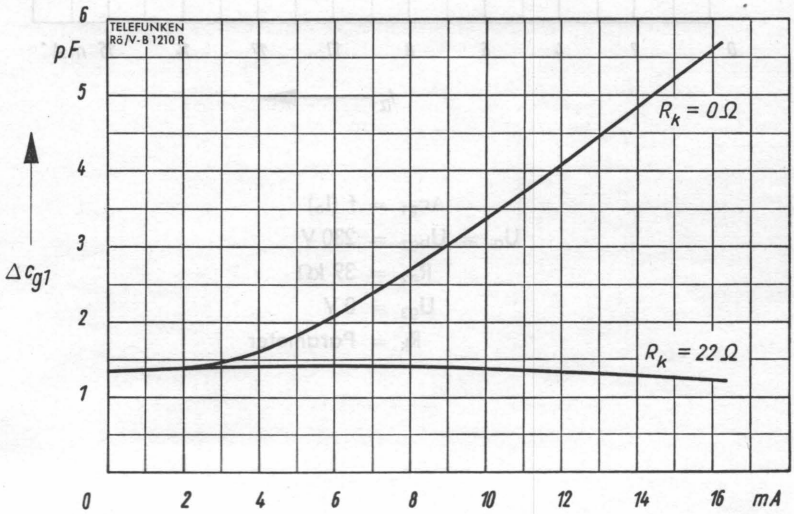


$I_a, I_{g2}, S, R_i = f(U_{g1})$
 $U_a = U_{bg2} = 230 \text{ V}$
 $R_{g2} = 29 \text{ k}\Omega$
 $U_{g3} = 0 \text{ V}$



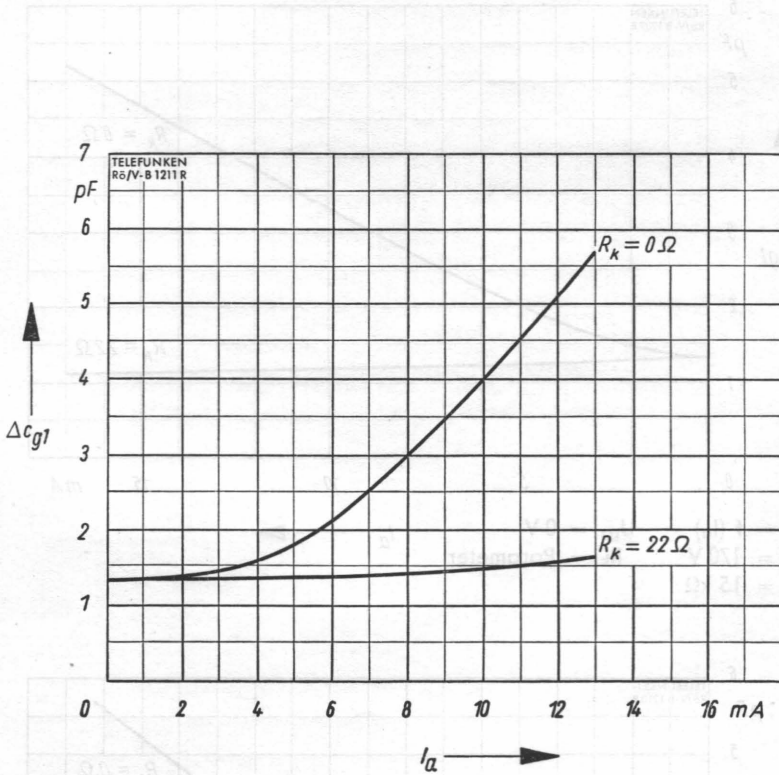


$\Delta c_{g1} = f(I_a)$ $U_{g3} = 0 V$
 $U_a = U_{bg2} = 170 V$ $R_k = \text{Parameter}$
 $R_{g2} = 15 k\Omega$



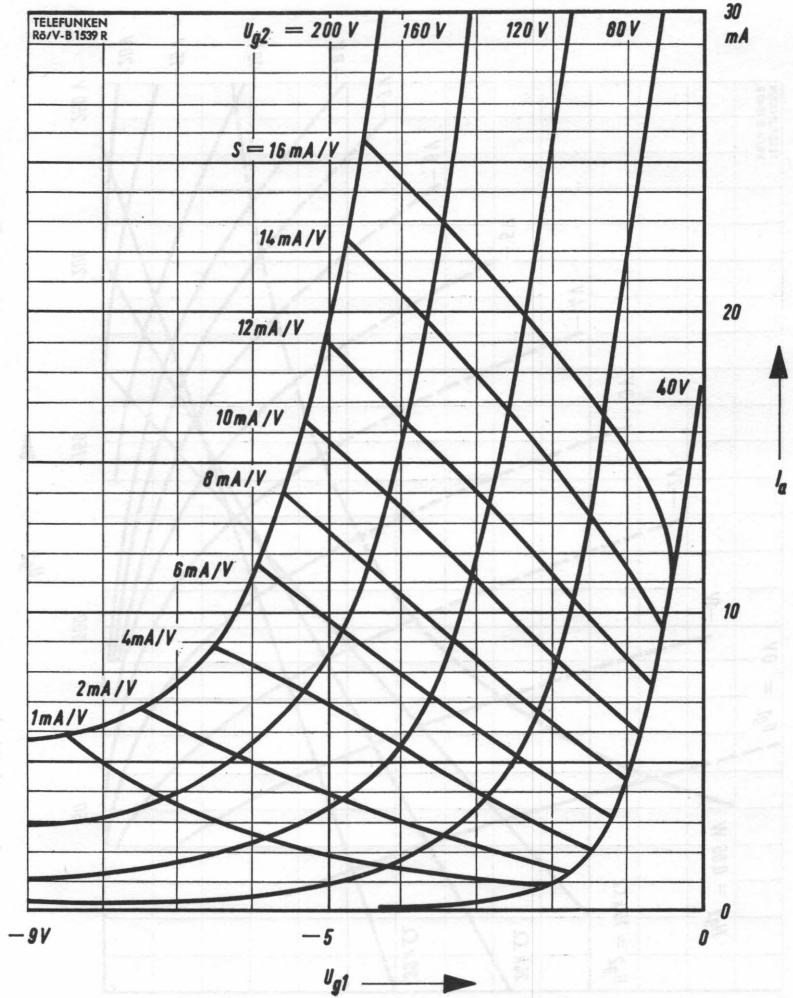
$\Delta c_{g1} = f(I_a)$ $U_{g3} = 0 V$
 $U_a = U_{bg2} = 200 V$ $R_k = \text{Parameter}$
 $R_{g2} = 24 k\Omega$





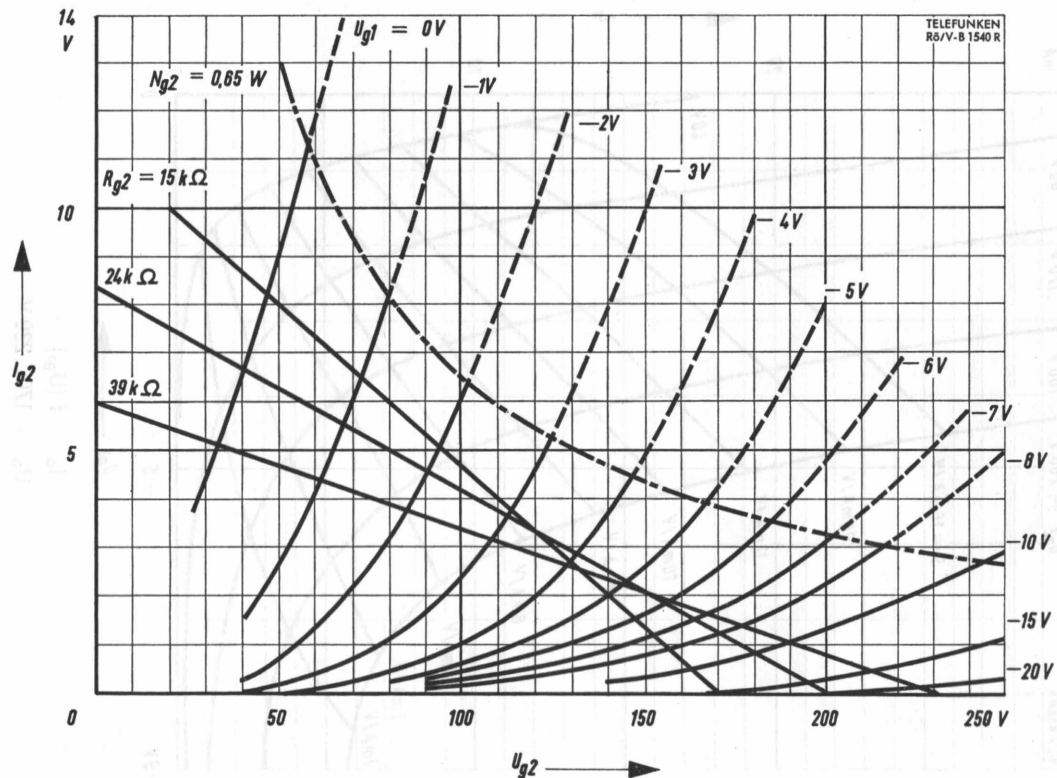
$\Delta C_{g1} = f(I_a)$
 $U_a = U_{bg2} = 230 \text{ V}$
 $R_{g2} = 39 \text{ k}\Omega$
 $U_{g3} = 0 \text{ V}$
 $R_k = \text{Parameter}$





$I_a = f(U_{g1})$
 $U_a = 170 \dots 230\text{ V}$
 $U_{g3} = 0\text{ V}$
 $U_{g2} = \text{Parameter}$
 $S = \text{Parameter}$





$I_{g2} = f(U_{g2})$
 $U_a = 170 \dots 230 \text{ V}$
 $U_{g3} = 0 \text{ V}$

$U_{g1} = \text{Parameter}$
 $R_{g2} = \text{Parameter}$

