

Netzröhre für GW-Heizung
indirekt geheizt
Serien- oder Parallelspeisung
DC-AC-Heating
indirectly heated
connected in parallel or series

TELEFUNKEN

EMM 801

Anzeige-Röhre zum
Spannungsvergleich
Indicator tube for
voltage comparison

U_f	6,3	V
I_f	300	mA

Meßwerte · Measuring values

Triodenteil je System
Triode section per System

U_a	100	V
U_g	-2	V
I_a	2,8	mA
S	1	mA/V
μ	19	
$U_{ge} (I_g \leq +0,3 \mu A)$	-1,3	V

Betriebswerte · Typical operation

$U_b = U_L$	200		250		V
$R_{aI} = R_{aII}$	400		400		k Ω
$U_{g\text{anz.}}$	0		0		
$U_{gI} = U_{gII}$	0 ... -16		0 ... -20		V
$R_{gI} = R_{gII}$	2		2		M Ω
I_L	1,4	1,9	1,8	2,5	mA
$I_{aI} = I_{aII}$	430	48	550	60	μA
$a_I = a_{II}$	27	0	27	0	mm

max. Schattenlängenunterschied
max. difference of shadow length

$$a_{II} - a_I = 2 \text{ mm}$$

bei $U_{gI} = U_{gII} = -1,3 \text{ V}$

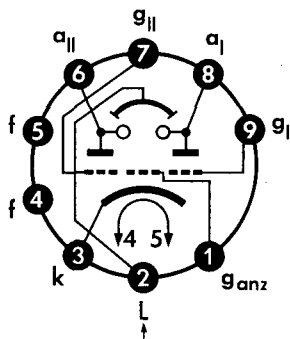


Grenzwerte · Maximum ratings

per System

U_{ao}	550	V
U_a	300	V
N_a	0,2	W
U_{Lo}	550	V
U_L	300	V
U_{Lmin}	170	V
I_k	12	mA
R_g	3	MΩ
$U_{f/k}$	100	V
$R_{f/k}$	20	kΩ

Sockelschaltbild
Base connection

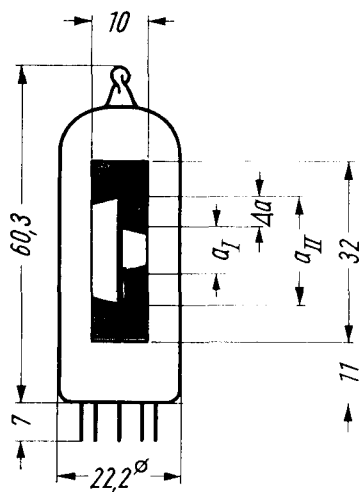


Blickrichtung · Direction of view

Pico 9 · Noval

max. Abmessungen
max. dimensions

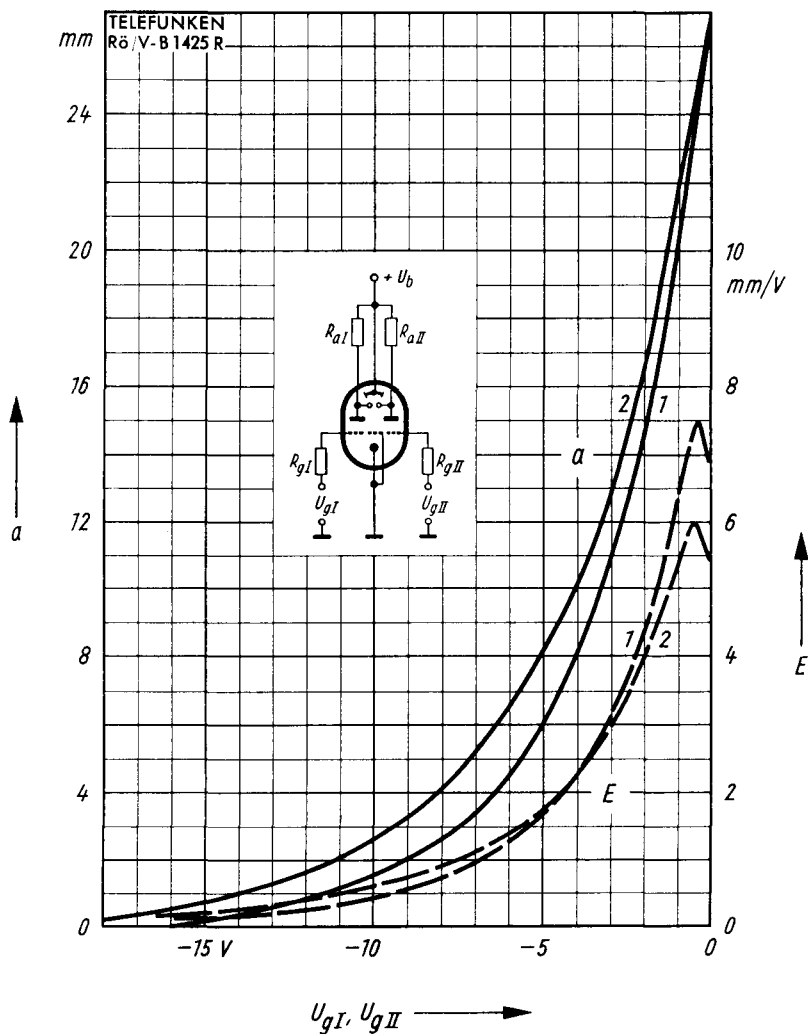
DIN 41 539, Nenngröße 50 Form A



Gewicht · Weight
max. 18 g

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.

Special precautions must be taken to prevent the tube from becoming dislodged.



$$E, a = f(U_g)$$

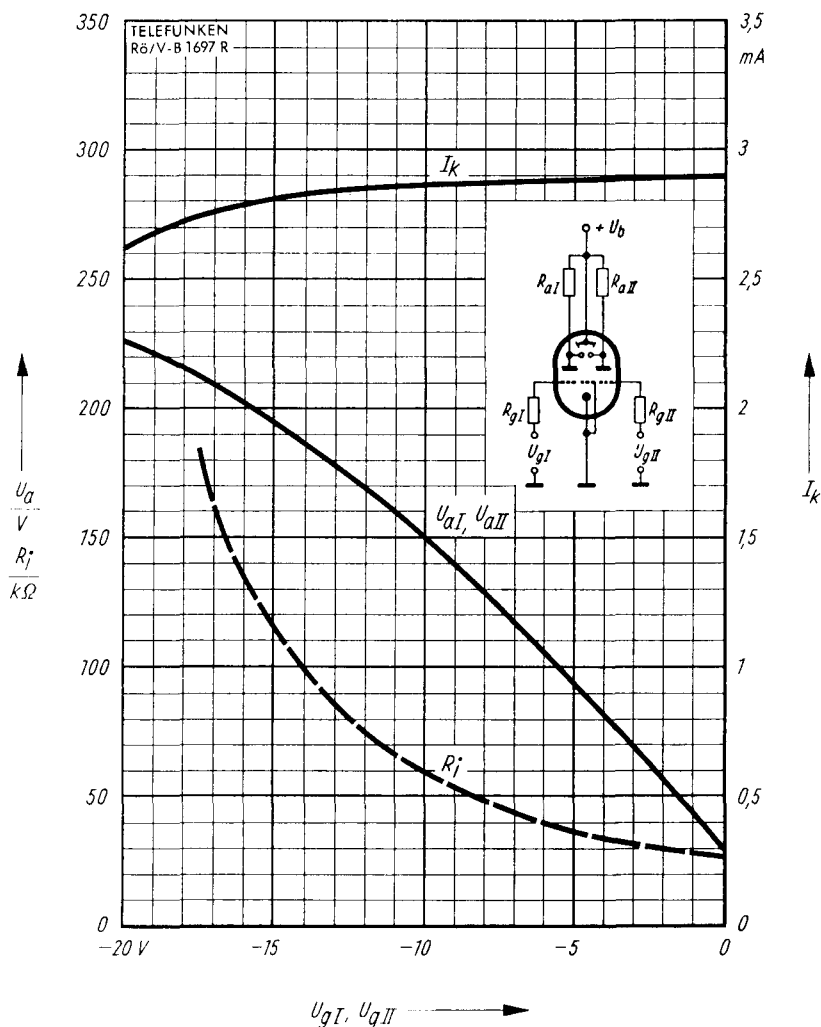
$$1. U_b = 200 \text{ V}$$

$$2. U_b = 250 \text{ V}$$

$$R_{aI} = R_{aII} = 400 \text{ k}\Omega$$

$$R_{gI} = R_{gII} = 2 \text{ M}\Omega$$

E = Empfindlichkeit · Sensitivity



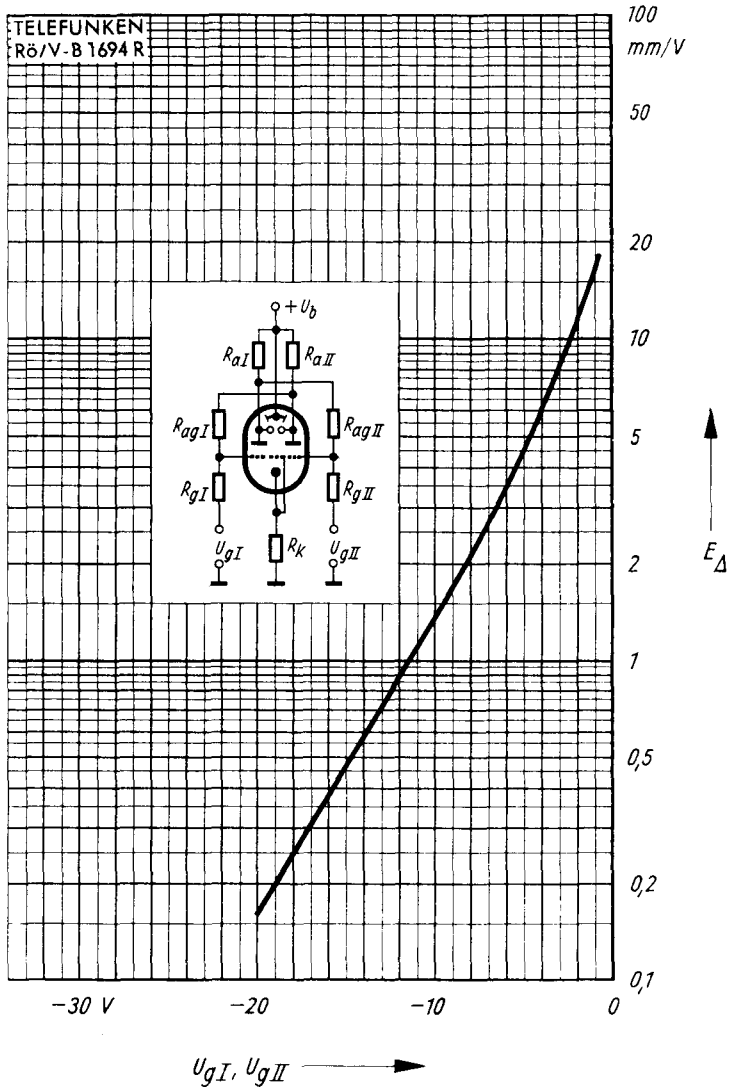
$$U_a, R_i, I_k = f(U_{gI}, U_{gII})$$

$$U_b = 250 \text{ V}$$

$$R_{aI} = R_{aII} = 400 \text{ k}\Omega$$

$$R_{gI} = R_{gII} = 2 \text{ M}\Omega$$





$$E_{\Delta} = f(U_{gI}, U_{gII})$$

$$U_b = 250 \text{ V}$$

$$R_{aI} = R_{aII} = 400 \text{ k}\Omega$$

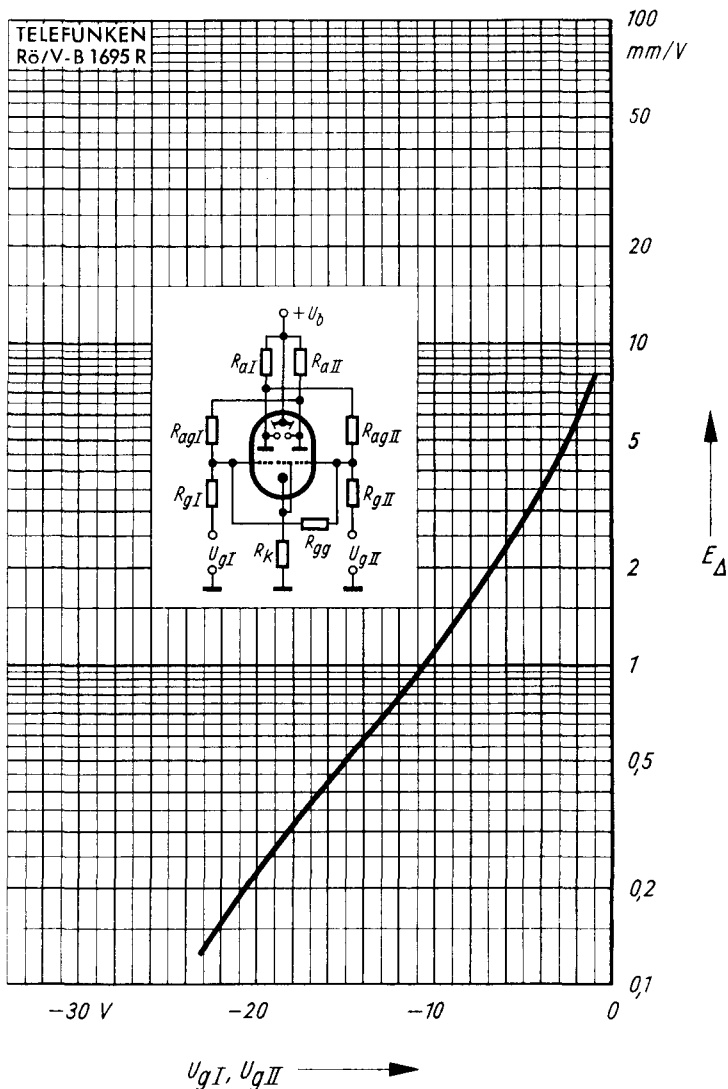
$$R_{gI} = R_{gII} = 500 \text{ k}\Omega$$

$$R_{agI} = R_{agII} = 10 \text{ M}\Omega$$

$$R_k = 500 \text{ }\Omega$$

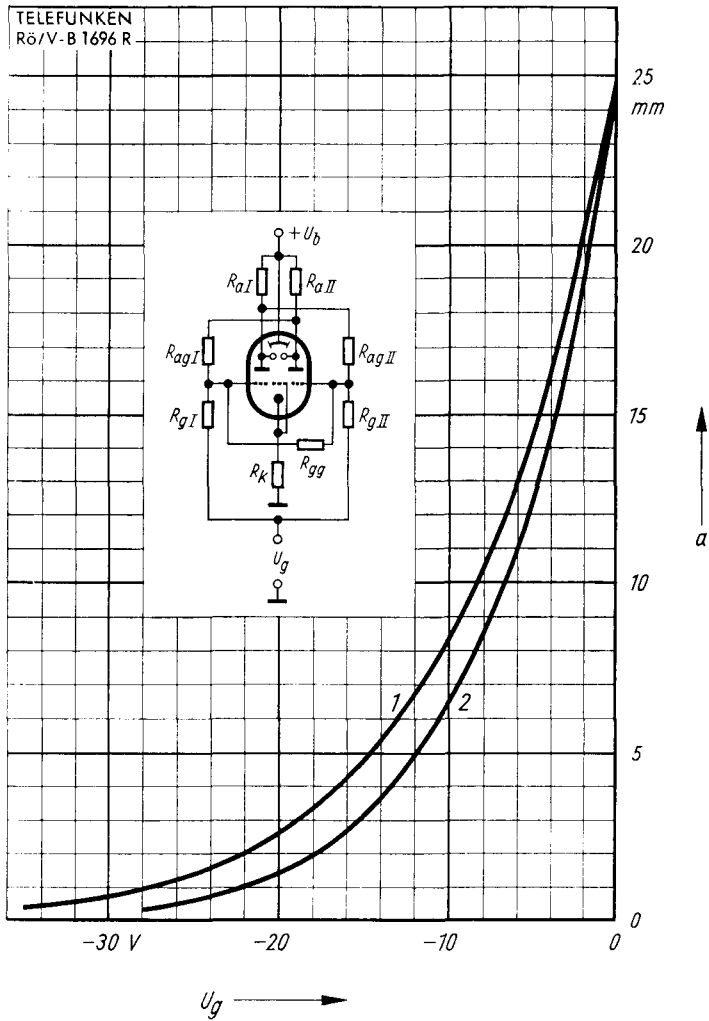
E_{Δ} = Differenz-Anzeigeempfindlichkeit





$$\begin{aligned}
 E &= f(U_{gI}, U_{gII}) \\
 U_b &= 250 \text{ V} \\
 R_{aI} &= R_{aII} = 400 \text{ k}\Omega \\
 R_{gI} &= R_{gII} = 500 \text{ k}\Omega \\
 R_{agI} &= R_{agII} = 5 \text{ M}\Omega \\
 R_{gg} &= 1 \text{ M}\Omega \\
 R_k &= 1 \text{ k}\Omega
 \end{aligned}$$





$$a = f(U_g)$$

1. $U_b = 250 \text{ V}$
2. $U_b = 200 \text{ V}$

$$R_{aI} = R_{aII} = 400 \text{ k}\Omega$$

$$R_{gI} = R_{gII} = 500 \text{ k}\Omega$$

$$R_{agI} = R_{agII} = 5 \text{ M}\Omega$$

$$R_{gg} = 1 \text{ M}\Omega$$

$$R_k = 1 \text{ k}\Omega$$

