

Netzröhre für GW-Heizung  
indirekt geheizt  
Parallelspeisung

DC-AC-Heating  
indirectly heated  
connected in parallel

# TELEFUNKEN

**EAM 86**

Abstimm- u. Aussteuerungs-Anzeigeröhre  
Tuning and modulation indicator

## Vorläufige technische Daten • Tentative data

Leuchtschirm auf der Glaskolbenfläche

eingebautes Diodensystem zur Gleichrichtung der Anzeigespannung

Fluorescent screen on the glass bulb

mounted diode system for rectification of the tuning voltage

|       |            |    |
|-------|------------|----|
| $U_f$ | <b>6,3</b> | V  |
| $I_f$ | ca. 300    | mA |

## Meßwerte • Measuring values

Diode

|       |          |    |
|-------|----------|----|
| $U_d$ | <b>5</b> | V  |
| $I_d$ | ca. 0,5  | mA |

## Betriebswerte • Typical operation

Trioden- und Anzeigesystem

Triode system and indicating system

Stift 3 mit Stift 9 und Stift 1 mit Stift 6 verbunden

Pin 3 connected to pin 9 and pin 1 connected to pin 6

|                         |            |            |            |            |            |
|-------------------------|------------|------------|------------|------------|------------|
| $U_L = U_b$             | <b>200</b> | <b>200</b> | <b>250</b> | <b>250</b> | V          |
| $R_{aT+st}$             | <b>100</b> | <b>200</b> | <b>100</b> | <b>200</b> | k $\Omega$ |
| $R_g$                   | 3          | 3          | 3          | 3          | M $\Omega$ |
| $U_{g\text{ ausst.}}$   | 0...-7     | 0...-7     | 0...-8     | 0...-8     | V          |
| $U_{g\text{ schliess}}$ | -3,5       | -4,2       | -4         | -5         | V          |
| $I_L$                   | 1,5...3    | 1,5...3    | 2...4      | 2...4      | mA         |
| $I_{aT+st}$             | 1,4...0,35 | 12...0,2   | 1,8...0,5  | 1,5...0,3  | mA         |
| b <sup>1)</sup>         | 12...-3    | 16...-1,5  | 13...-2,5  | 17...-2    | mm         |

<sup>1)</sup> Negative Werte der Schattenlänge bedeuten Überschneidung.

Negative values of the shade length mean overlapping.



**Grenzwerte** · Maximum ratings

Triodensystem (T) und Anzeigesystem (L)

Triode system (T) and indicating system (L)

|                             |              |            |
|-----------------------------|--------------|------------|
| $U_{Lo}$                    | <b>550</b>   | V          |
| $U_L$                       | <b>250</b>   | V          |
| $U_{Lmin}$                  | <b>170</b>   | V          |
| $U_{ao} = U_{sto}$          | <b>550</b>   | V          |
| $U_a = U_{st}$              | <b>300</b>   | V          |
| $N_{aT}$                    | <b>0,5</b>   | W          |
| $I_{kL}$                    | <b>5</b>     | mA         |
| $I_{kT}$                    | <b>5</b>     | mA         |
| $R_g$                       | <b>3</b>     | M $\Omega$ |
| $U_{f/k+} (L)$              | <b>200</b>   | V          |
| $U_{f/k-} (L)$              | <b>200</b>   | V          |
| $U_{f/k+} (T)$              | <b>200</b>   | V          |
| $U_{f/k-} (T)$              | <b>200</b>   | V          |
| $R_{f/kL}$                  | <b>20</b>    | k $\Omega$ |
| $R_{f/kT}$                  | <b>100</b>   | k $\Omega$ |
| $U_{ge} (I_g = +0,3 \mu A)$ | <b>- 1,3</b> | V          |
| $t_{Kolben}$                | <b>130</b>   | °C         |

**Diodensystem**

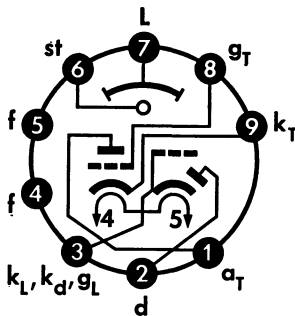
|                             |              |            |
|-----------------------------|--------------|------------|
| $U_{dsp}$                   | <b>- 150</b> | V          |
| $I_d$                       | <b>1</b>     | mA         |
| $I_{dsp}$                   | <b>5</b>     | mA         |
| $U_{de} (I_d = +0,3 \mu A)$ | <b>- 1,3</b> | V          |
| $U_{f/k+}$                  | <b>200</b>   | V          |
| $U_{f/k-}$                  | <b>200</b>   | V          |
| $R_{f/kL}$                  | <b>20</b>    | k $\Omega$ |



## Kapazitäten • Capacitances

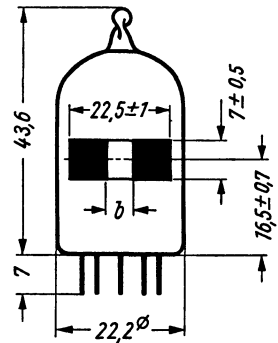
|             |        |    |
|-------------|--------|----|
| $c_d/k+f+L$ | ca. 1  | pF |
| $c_d/f$     | < 0,25 | pF |

Sockelschaltbild  
Base connection



Pico 9 • Noval

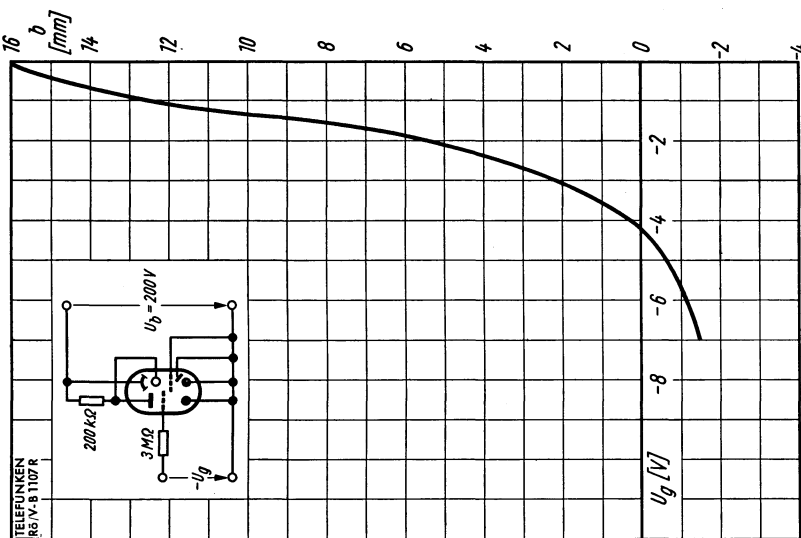
max. Abmessungen  
max. dimensions



Gewicht • Weight  
max. 14 g

- 1) Die seitliche Verschiebung der Mitte des Leuchtfeldes (Ebene durch Stift 2 und 7) beträgt max. 1 mm.  
The sidelong shifting the middle of the fluorescent field (plane through pin 2 and pin 7) is max. 1 mm.

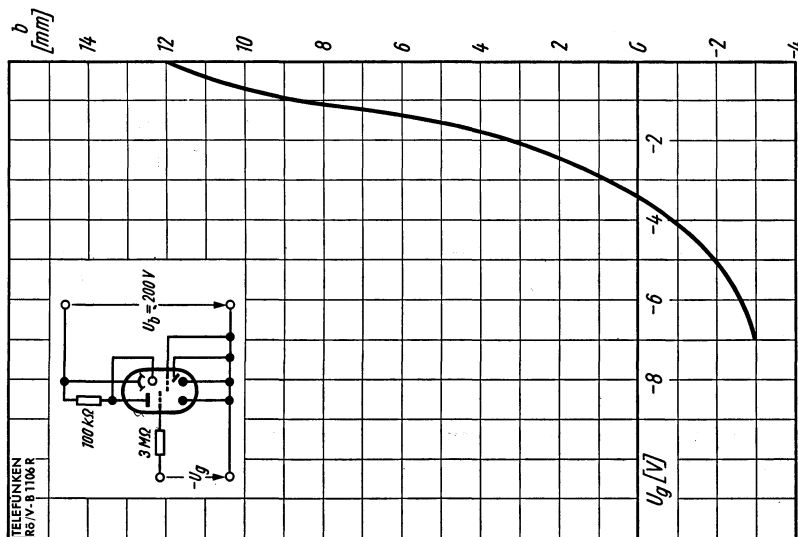
Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.  
Special precaution must be taken to prevent the tube from becoming dislodged.



$$b = f(U_g)$$

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

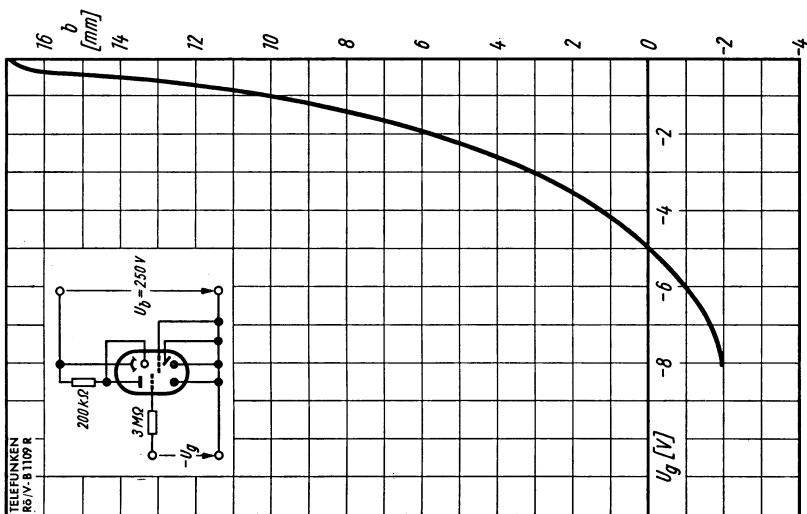
$$R_{aT+st} = 200 \text{ k}\Omega$$



$$b = f(U_g)$$

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

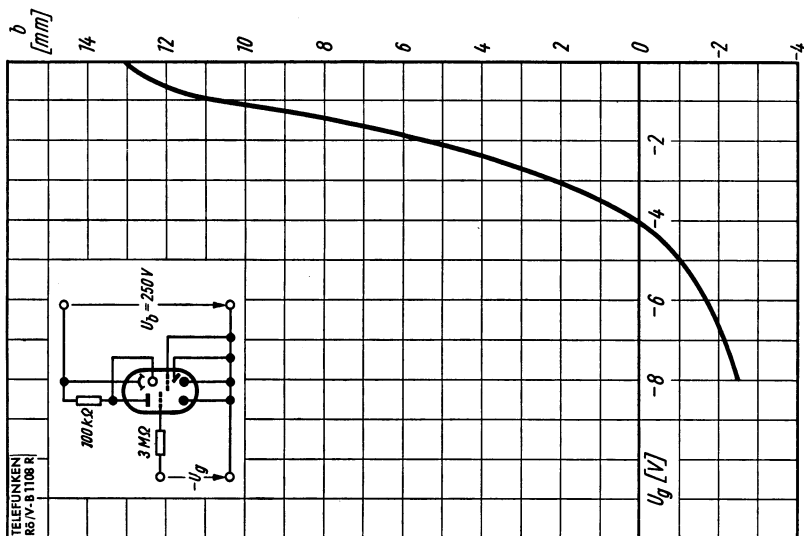
$$R_{aT+st} = 100 \text{ k}\Omega$$



$$b = f(U_g)$$

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

$$R_{aT+st} = 200 \text{ k}\Omega$$

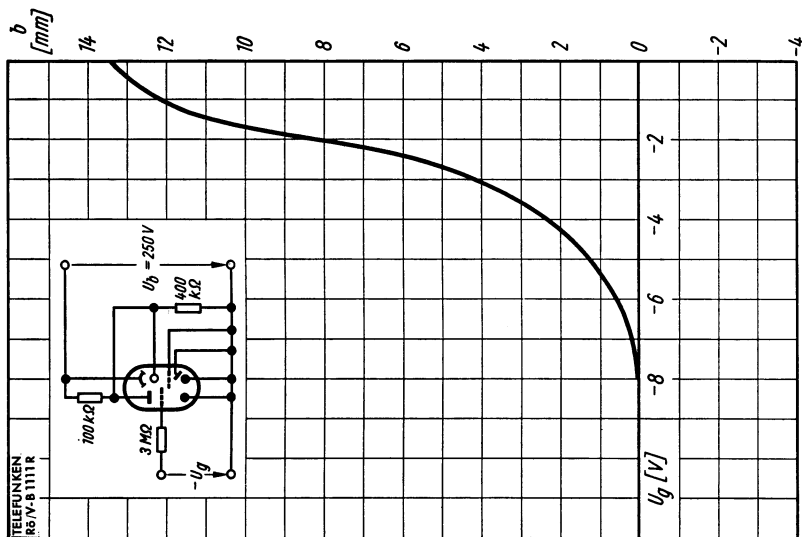


$$b = f(U_g)$$

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

$$R_{aT+st} = 100 \text{ k}\Omega$$



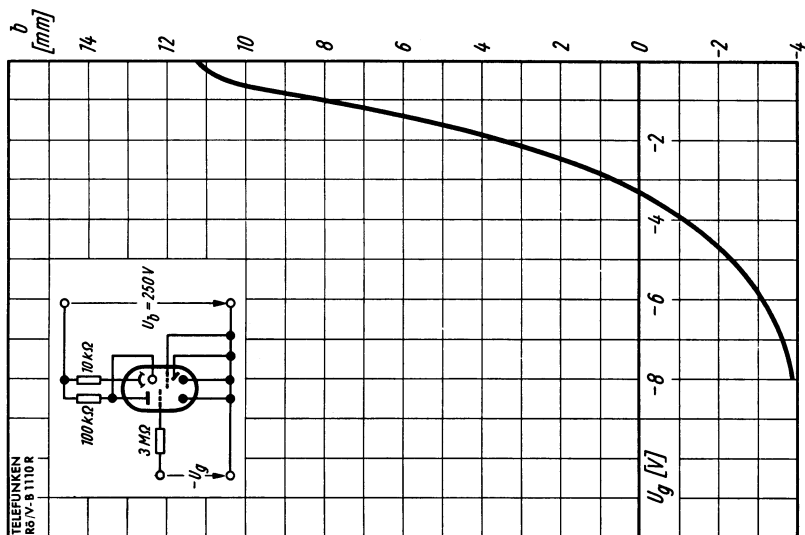


$$b = f(U_g)$$

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

$$R_{aT1} = 100 \text{ k}\Omega$$

$$R_{aT2} = 400 \text{ k}\Omega$$



$$b = f(U_g)$$

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

$$R_{aT+st} = 100 \text{ k}\Omega$$

$$R_{aL} = 10 \text{ k}\Omega$$

