

TRIODE for use as H.F. or L.F. amplifier or oscillator  
 TRIODE pour utilisation comme amplificatrice H.F. ou B.F.  
 ou oscillatrice  
 TRIODE zur Verwendung als HF- oder NF-Verstärker oder  
 Oszillator

Filament : thoriated tungsten  
 Filament : tungstène thorié  
 Heizfaden: thoriertes Wolfram

Heating : direct  
 Chauffage: direct  
 Heizung : direkt

$V_f = 12 \text{ V}$

$I_f = 2,7 \text{ A}$

Capacitances  
 Capacités  
 Kapazitäten

$C_a = 5,4 \text{ pF}$

$C_g = 8,2 \text{ pF}$

$C_{ag} = 5,5 \text{ pF}$

Typical characteristics  
 Caractéristiques types  
 Kenndaten

$\mu = 27$

$S (I_a=50 \text{ mA}) = 4,2 \text{ mA/V}$

| $\lambda$ | Freq. | C telegr.    |              | B teleph.    |              | Can. mod.    |              | B mod <sup>1)</sup> |              |
|-----------|-------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|
|           |       | $V_a$<br>(V) | $W_o$<br>(W) | $V_a$<br>(V) | $W_o$<br>(W) | $V_a$<br>(V) | $W_o$<br>(W) | $V_a$<br>(V)        | $W_o$<br>(W) |
| >6,5      | <46   | 2000         | 275          | 2000         | 60           | 1600         | 160          | 2000                | 540          |
|           |       | 1500         | 200          | 1500         | 57           | 1200         | 100          | 1600                | 240          |
| 5         | 60    | 1500         | 200          | 1500         | 48           | 1200         | 85           | 1200                | 168          |
| 3         | 100   | 1050         | 120          |              |              |              |              |                     |              |

Limiting values  
 Caractéristiques limites  
 Grenzdaten

$V_a = \text{max. } 2000 \text{ V}$

$W_a = \text{max. } 130 \text{ W}$

$W_g = \text{max. } 18 \text{ W}$

$R_g = \text{max. } 25 \text{ k}\Omega$

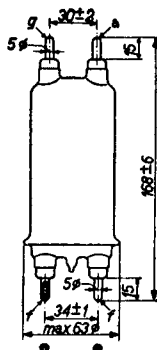
$I_k = \text{max. } 230 \text{ mA}$

<sup>1)</sup> Two tubes; deux tubes; zwei Röhren

Temperature of pin seals  
 Température des scellements des broches = max. 220 °C  
 Temperatur der Stiftendurchführungen

Bulb temperature  
 Température de l'ampoule = max. 250 °C  
 Kolbentemperatur

Dimensions in mm  
 Dimensions en mm  
 Abmessungen in mm



|         |       |                     |       |
|---------|-------|---------------------|-------|
| Socket  |       | Clips               |       |
| Support | 40206 | Bornes de connexion | 40600 |
| Fassung |       | Anschlussklemmen    |       |

|           |       |
|-----------|-------|
| Key       |       |
| Clé       | 40608 |
| Schlüssel |       |

|                    |                                                      |
|--------------------|------------------------------------------------------|
| Mounting position: | vertical with base up <sup>1)</sup> or down          |
| Montage            | : vertical avec pied en haut <sup>1)</sup> ou en bas |
| Einbau             | : senkrecht mit Sockel oben <sup>1)</sup> oder unten |

|              |       |                 |       |
|--------------|-------|-----------------|-------|
| Net weight   |       | Shipping weight |       |
| Poids net    | 160 g | Poids brut      | 400 g |
| Nettogewicht |       | Bruttogewicht   |       |

<sup>1)</sup> In that case the tube should be supported  
 Dans ce cas le tube doit être supporté  
 In diesem Fall ist die Röhre zu stützen

Operating conditions H.F. class C telegraphy  
Caractéristiques d'utilisation H.F. classe C télégraphie

Betriebsdaten H.F. Klasse C Telegraphie

|           |   |      |      |                 |    |
|-----------|---|------|------|-----------------|----|
| $\lambda$ | = | >6,5 | >6,5 | 5 <sup>1)</sup> | m  |
| Va        | = | 2000 | 1500 | 1500            | V  |
| Vg        | = | -150 | -120 | -120            | V  |
| Ia        | = | 190  | 190  | 400             | mA |
| Ig        | = | 25   | 35   | 50              | mA |
| Vgp       | = | 280  | 270  | 290             | V  |
| Wig       | = | 7    | 10   | 15              | W  |
| Wia       | = | 380  | 285  | 600             | W  |
| Wa        | = | 105  | 85   | 200             | W  |
| Wo        | = | 275  | 200  | 400             | W  |
| $\eta$    | = | 72   | 70   | 67              | %  |

Operating conditions H.F. class B telephony  
Caractéristiques d'utilisation H.F. classe B téléphonie

Betriebsdaten Klasse B Telephonie

|           |   |      |      |                 |    |
|-----------|---|------|------|-----------------|----|
| $\lambda$ | = | >6,5 | >6,5 | 5 <sup>1)</sup> | m  |
| Va        | = | 2000 | 1500 | 1500            | V  |
| Vg        | = | -60  | -45  | -45             | V  |
| Ia        | = | 95   | 118  | 210             | mA |
| Vgp       | = | 80   | 90   | 90              | V  |
| Wia       | = | 190  | 177  | 315             | W  |
| Wa        | = | 130  | 120  | 220             | W  |
| Wo        | = | 60   | 57   | 95              | W  |
| $\eta$    | = | 31,5 | 32   | 30              | %  |

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|     |   |     |     |     |    |
|-----|---|-----|-----|-----|----|
| m   | = | 100 | 100 | 100 | %  |
| Ig  | = | 25  | 35  | 70  | mA |
| Wig | = | 4   | 6,3 | 13  | W  |

<sup>1)</sup> Two valves; deux tubes; zwei Röhren

Operating conditions H.F. class C anode modulation  
 Caractéristiques d'utilisation H.F. classe C modulation d'anode  
 Betriebsdaten H.F. Klasse C Anodenmodulation

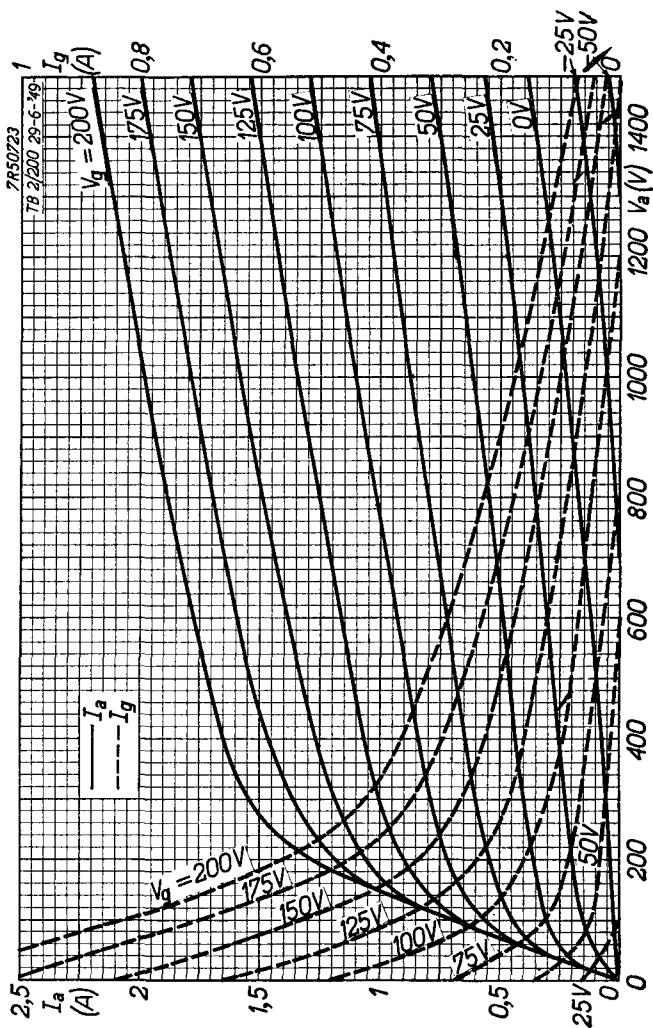
|           |   |      |      |                 |    |
|-----------|---|------|------|-----------------|----|
| $\lambda$ | = | >6,5 | >6,5 | 5 <sup>1)</sup> | m  |
| Va        | = | 1600 | 1200 | 1200            | V  |
| Vg        | = | -200 | -180 | -180            | V  |
| Ia        | = | 135  | 120  | 240             | mA |
| Ig        | = | 35   | 30   | 50              | mA |
| Vgp       | = | 330  | 320  | 320             | V  |
| Wig       | = | 11,5 | 10   | 16              | W  |
| Wia       | = | 216  | 144  | 288             | W  |
| Wa        | = | 56   | 44   | 118             | W  |
| Wo        | = | 160  | 100  | 170             | W  |
| $\eta$    | = | 74   | 70   | 59              | %  |

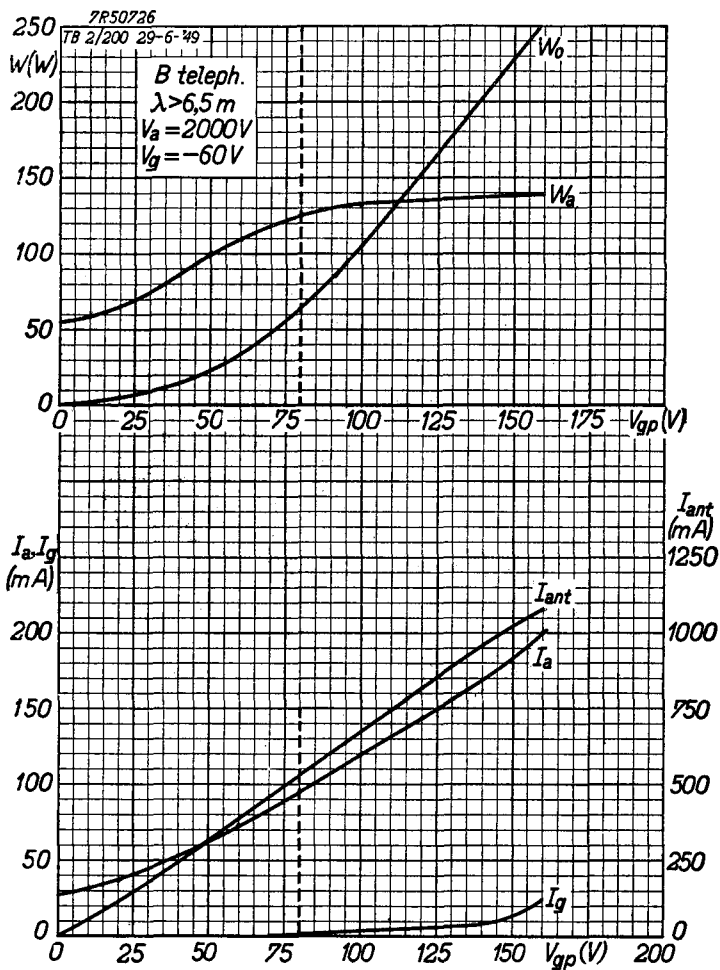
|      |   |     |     |     |   |
|------|---|-----|-----|-----|---|
| m    | = | 100 | 100 | 100 | % |
| Wmod | = | 108 | 72  | 144 | W |

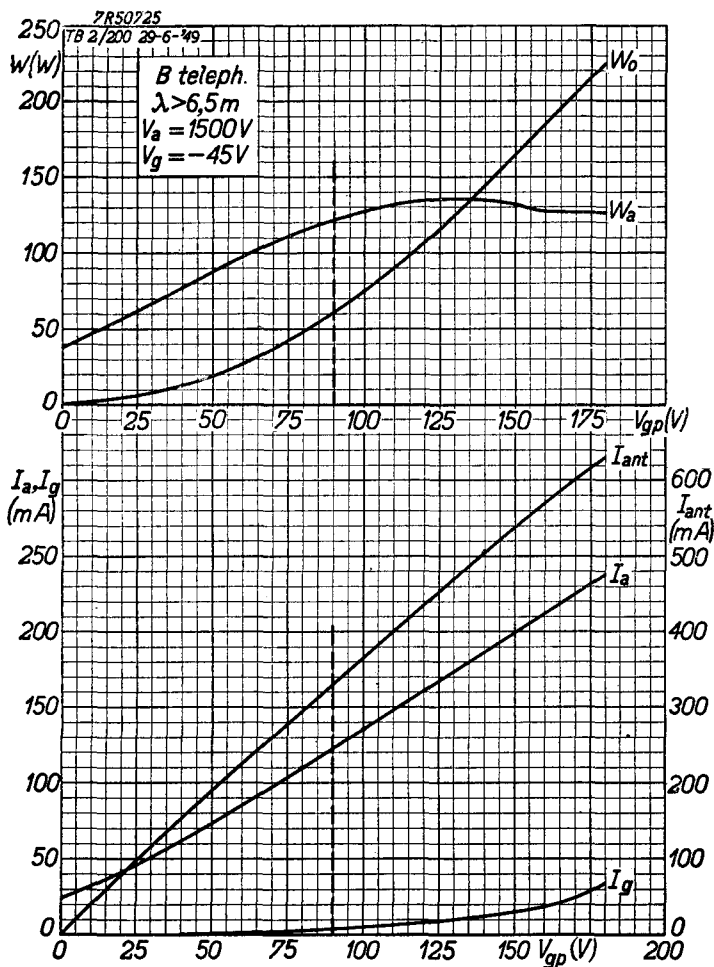
Operating conditions as L.F. class B modulator <sup>1)</sup>  
 Caractéristiques d'utilisation en modulatrice B.F. classe B <sup>1)</sup>  
 Betriebsdaten als N.F. Klasse B Modulator <sup>1)</sup>

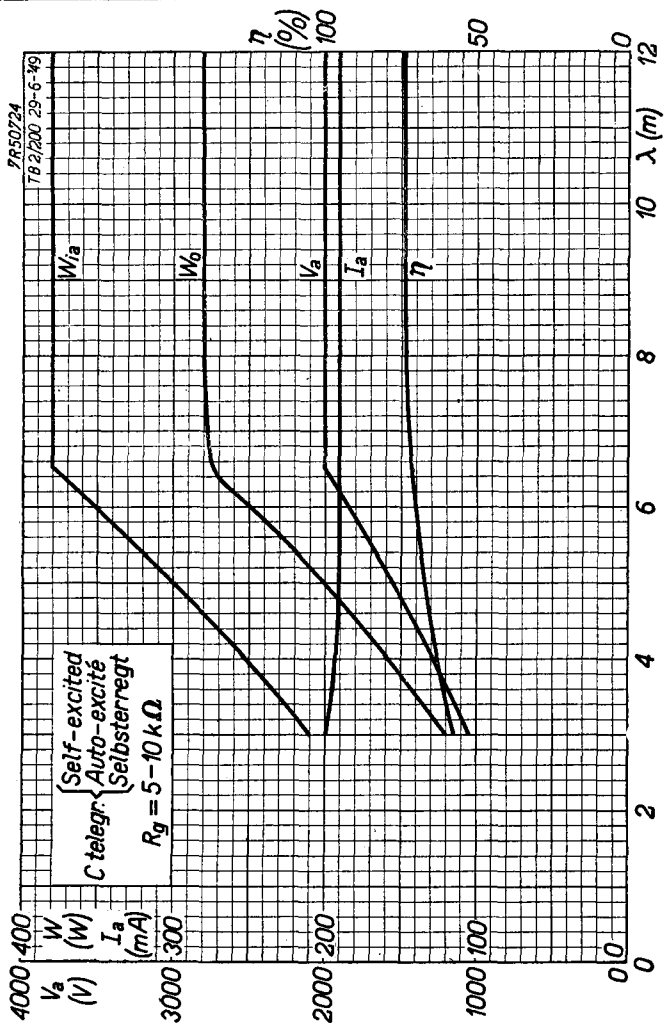
|                  |   |            |            |              |            |
|------------------|---|------------|------------|--------------|------------|
| Va               | = | 2000       | 1600       | 1200         | V          |
| Vg               | = | -70        | -55        | -40          | V          |
| Raa              | = | 13,2       | 20         | 16           | k $\Omega$ |
| Vg <sub>gp</sub> | = | 0 300      | 0 210      | 0 180        | V          |
| Ia               | = | 2x20 2x180 | 2x18 2x100 | 2x17 2x93    | mA         |
| Ig               | = | 0 2x15     | 0 2x6      | 0 2x10       | mA         |
| Igp              | = | 0 2x130    | 0 2x50     | 0 2x100      | mA         |
| Wig              | = | 0 2x2      | 0 2x0,5    | 0 2x0,8      | W          |
| Wia              | = | 2x40 2x360 | 2x29 2x160 | 2x20,4 2x112 | W          |
| Wa               | = | 2x40 2x90  | 2x29 2x40  | 2x20,4 2x28  | W          |
| Wo               | = | 0 540      | 0 240      | 0 168        | W          |
| $\eta$           | = | - 75       | - 75       | - 75         | %          |

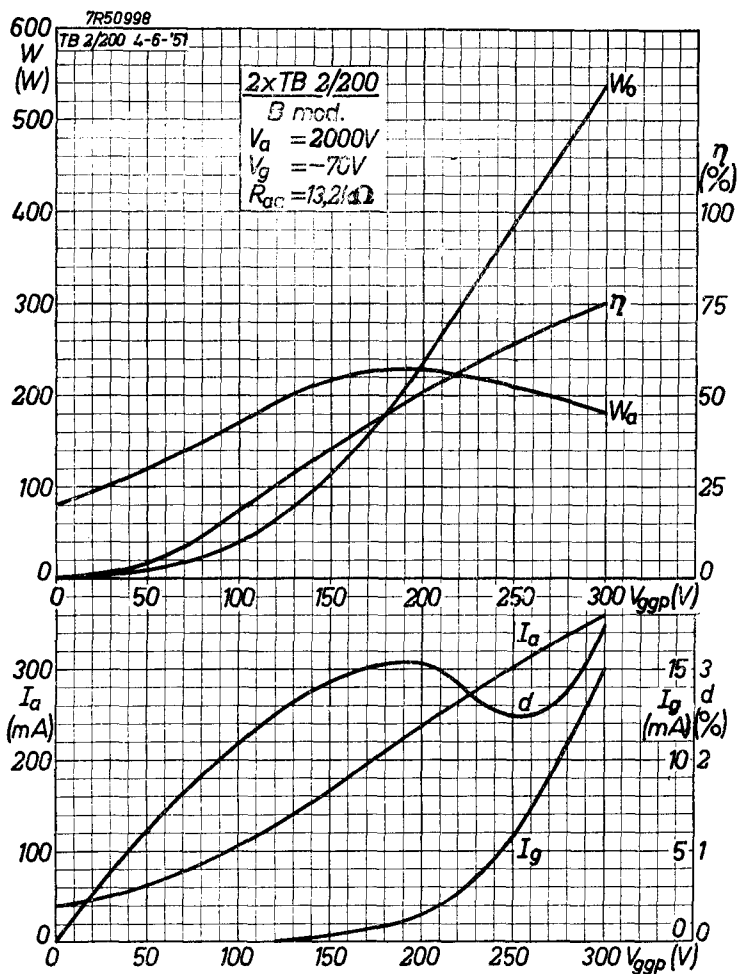
<sup>1)</sup> Two valves; deux tubes; zwei Röhren









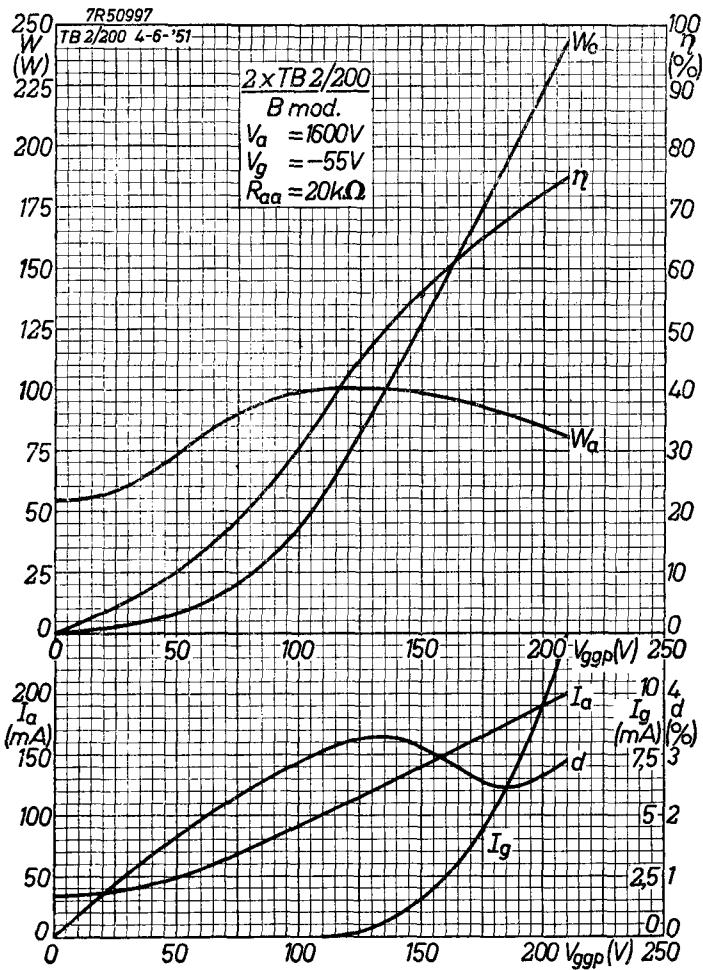


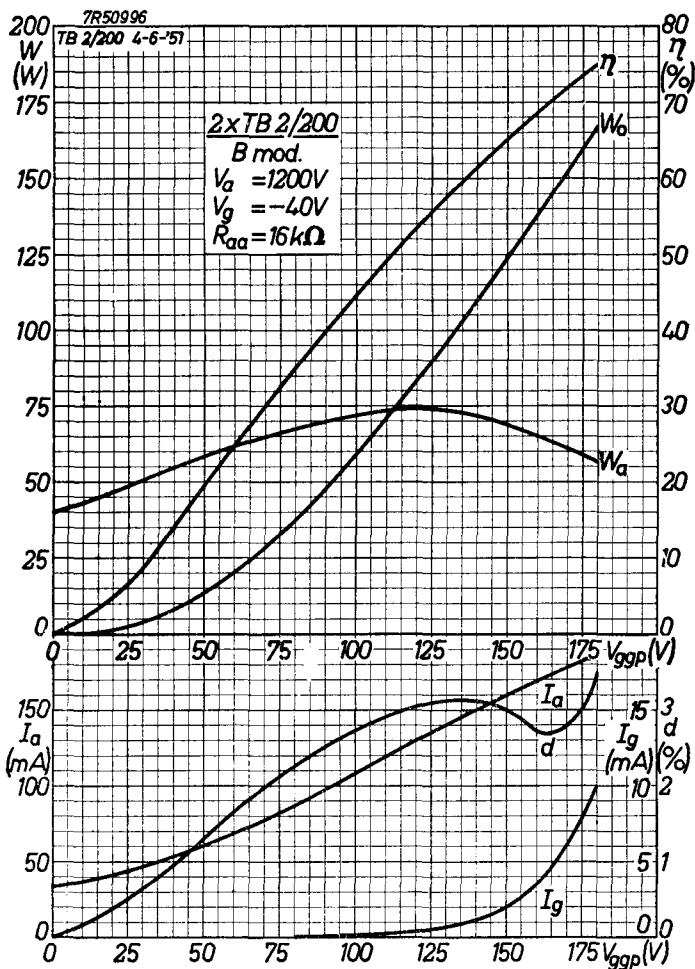
7R50997

TB 2/200 4-6-'51

 $2 \times TB 2/200$ 

B mod.

 $V_a = 1600V$  $V_g = -55V$  $R_{aa} = 20k\Omega$ 





**TB2/200**

| <b>page</b> | <b>sheet</b> | <b>date</b> |
|-------------|--------------|-------------|
| 1           | 1            | 1954.07.07  |
| 2           | 2            | 1954.07.07  |
| 3           | 3            | 1951.06.06  |
| 4           | 4            | 1951.06.06  |
| 5           | A            | 1949.07.07  |
| 6           | B            | 1949.07.07  |
| 7           | C            | 1949.07.07  |
| 8           | D            | 1949.07.07  |
| 9           | E            | 1951.06.06  |
| 10          | F            | 1951.06.06  |
| 11          | G            | 1951.06.06  |
| 12          | FP           | 1999.11.18  |