

R.F. PENTODE with variable mutual conductance for use as wide-band amplifier

PENTHODE H.F. à pente variable pour utilisation en amplificatrice à large bande

HF- PENTODE mit veränderlicher Steilheit zur Verwendung als Breitbandverstärker

Heating: indirect by A.C. or D.C.; parallel or series supply

Chauffage: indirect par C.A. ou C.C.; alimentation en parallèle ou en série

$V_f = 6,3 \text{ V}$

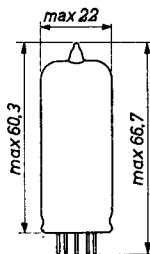
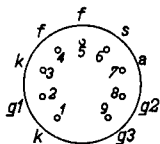
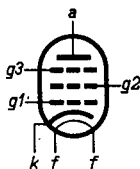
$I_f = 300 \text{ mA}$

Heizung: indirect durch Wechsel- oder Gleichstrom; Serien- oder Parallelschaltung

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, Sockel: NOVAL

Capacitances

Capacités

Kapazitäten

$C_a = 3,2 \text{ pF}$

$C_{g1} = 6,9 \text{ pF}$

$C_{ag1} < 0,007 \text{ pF}$

$C_{g1f} < 0,15 \text{ pF}$

Operating characteristics for use as R.F. or I.F. amplifier

Caractéristiques d'utilisation en amplificateur H.F. ou M.F.

Betriebsdaten als H.F.- oder Z.F.-Verstärker

|                 |                  |                  |            |
|-----------------|------------------|------------------|------------|
| $V_a = V_b =$   | 250              |                  | V          |
| $V_{g3} =$      | 0                |                  | V          |
| $R_{g2} =$      | 60               |                  | k $\Omega$ |
| $V_{g1} =$      | -2               | -35              | V          |
| $V_{g2} =$      | 100              | -                | V          |
| $I_a =$         | 10               | -                | mA         |
| $I_{g2} =$      | 2,5              | -                | mA         |
| $S =$           | 6,0              | 0,06             | mA/V       |
| $R_i =$         | 0,6              | >5               | M $\Omega$ |
| $R_{eq} =$      | 1,4              | -                | k $\Omega$ |
| $r_{g1}^{3)} =$ | 9                | -                | k $\Omega$ |
| $\mu_{g2g1} =$  | 26               | -                |            |
| $V_a = V_b =$   | 250              | 250              | V          |
| $V_{g3} =$      | 0                | 0                | V          |
| $R_{g2} =$      | 18 <sup>1)</sup> | 22 <sup>2)</sup> | k $\Omega$ |
| $V_{g1} =$      | -1,9             | -35              | V          |
| $V_{g2} =$      | 97               | 103              | V          |
| $I_a =$         | 10               | 10               | mA         |
| $I_{Rg2} =$     | 8,5              | 6,7              | mA         |
| $S =$           | 6,0              | 0,06             | 0,06       |
| $R_i =$         | 0,6              | > 5              | 0,6        |
| $R_{eq} =$      | 1,4              | -                | 1,4        |

1) Common screen-grid resistor of EF 85 and ECH 81 as frequency changer.

Résistance grille-écran commune des tubes EF 85 et ECH 81 comme tube mélangeur.

Gemeinsamer Schirmgitterwiderstand der Röhren EF 85 und ECH 81 als Mischröhre.

2) Common screen-grid resistor of EF 85 and ECH 81 as R.F. or I.F. amplifier.

Résistance grille-écran commune des tubes EF 85 et ECH 81 comme tube amplificateur H.F. ou M.F.

Gemeinsamer Schirmgitterwiderstand der Röhren EF 85 und ECH 81 als H.F.- oder Z.F.-Verstärker.

3) Input resistance at 50 Mc/s. Résistance d'entrée à 50 Mc/s. Eingangswiderstand bei 50 MHz.

Limiting values  
Caractéristiques limites  
Grenzdaten

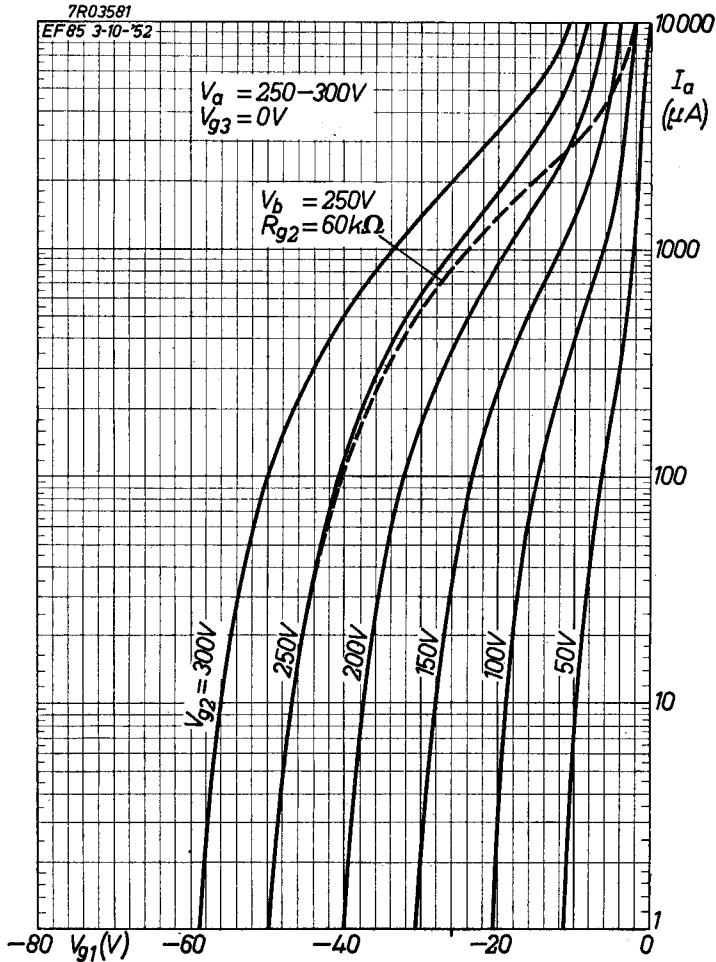
|                                    |        |               |
|------------------------------------|--------|---------------|
| $V_{ao}$                           | = max. | 550 V         |
| $V_a$                              | = max. | 250 V         |
| $W_a$                              | = max. | 2,5 W         |
| $V_{g2o}$                          | = max. | 550 V         |
| $V_{g2}$                           | = max. | 250 V         |
| $W_{g2}$                           | = max. | 0,65 W        |
| $I_k$                              | = max. | 15 mA         |
| $V_{g1}$ ( $I_{g1} = +0,3 \mu A$ ) | = max. | -1,3 V        |
| $R_{g1}$                           | = max. | 3 M $\Omega$  |
| $R_{kf}$                           | = max. | 20 k $\Omega$ |
| $V_{kf}$                           | = max. | 150 V         |

# PHILIPS

# EF 85

7R03581

EF85 3-10-52



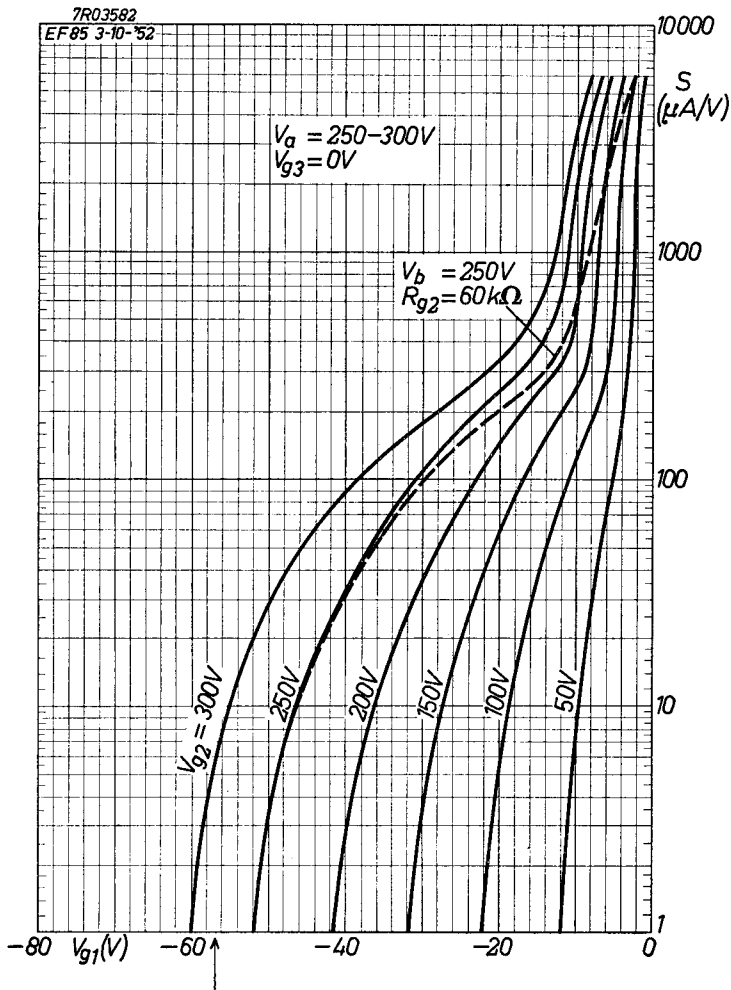
10.10.1952

A

**EF 85****PHILIPS**

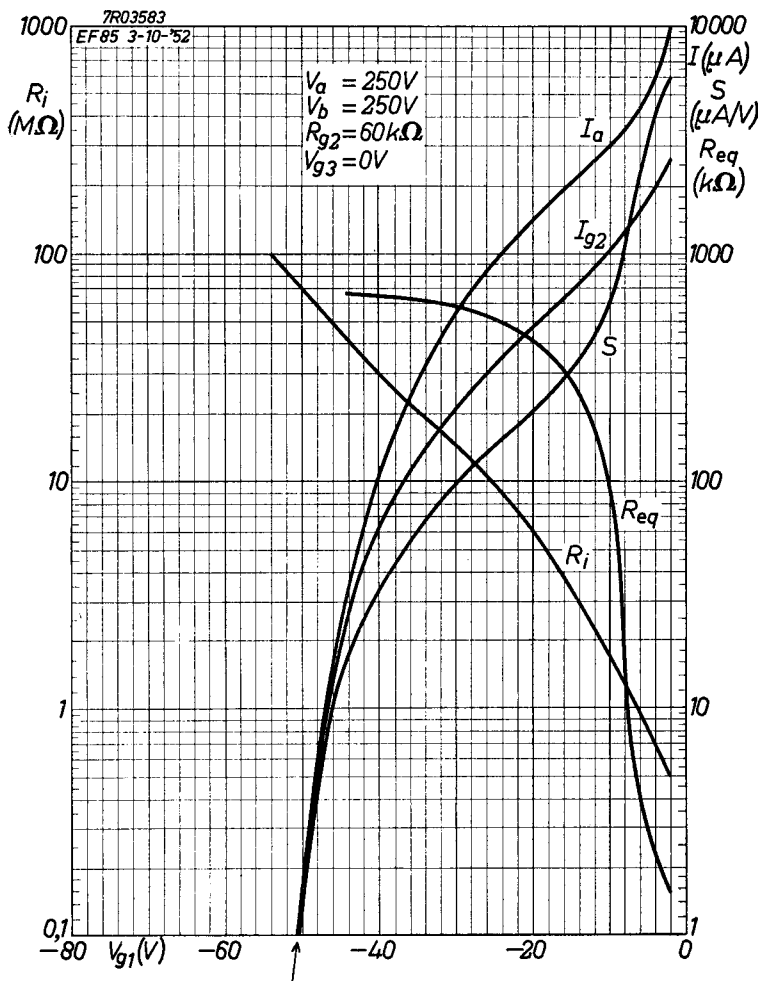
7R03582

EF85 3-10-52

**B**

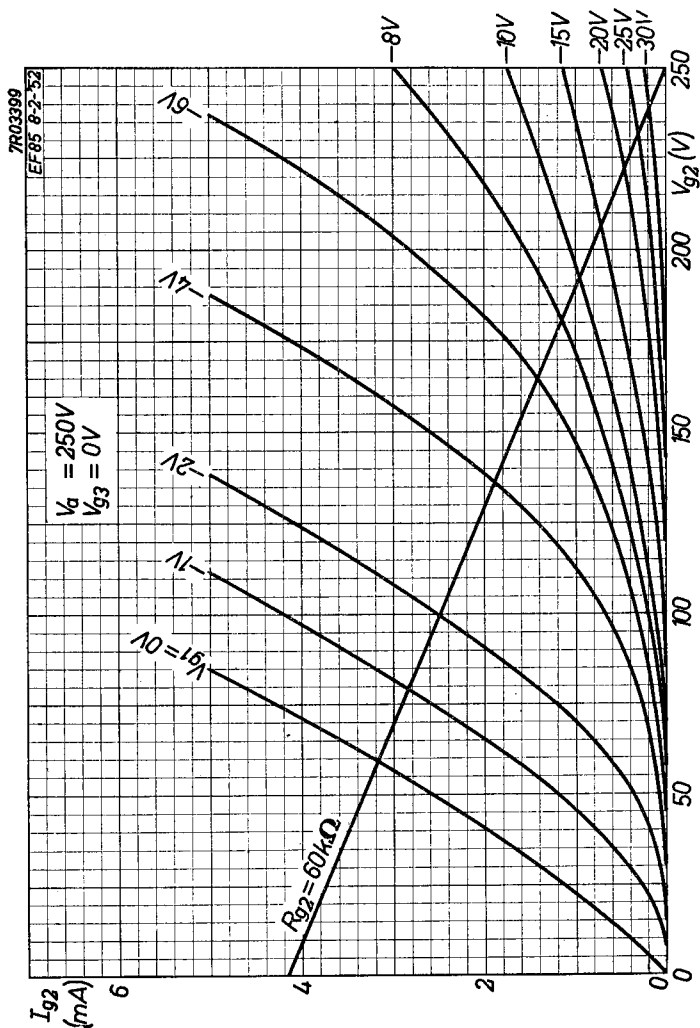
# PHILIPS

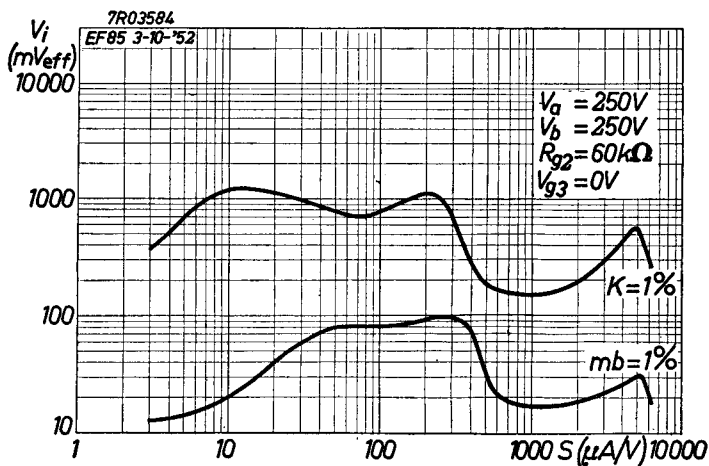
# EF 85



10.10.1952

c

**EF 85****PHILIPS**



→ E

10.10.1957



|      | EF85  |            |
|------|-------|------------|
| page | sheet | date       |
| 1    | 1     | 1955.06.06 |
| 2    | 2     | 1955.06.06 |
| 3    | 3     | 1954.11.11 |
| 4    | A     | 1952.10.10 |
| 5    | B     | 1952.10.10 |
| 6    | C     | 1952.10.10 |
| 7    | D     | 1952.10.10 |
| 8    | E     | 1957.10.10 |
| 9    | FP    | 1999.06.29 |