

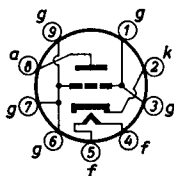
TRIODE for use as grounded grid U.H.F. amplifier in tuners for television bands IV and V

HEATING

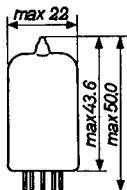
Indirect by A.C. or D.C.; series supply

$$\begin{aligned} \text{Heater current } I_f &= 300 \text{ mA} \\ \text{Heater voltage } V_f &= 3.8 \text{ V} \end{aligned}$$

Dimensions in mm



Base: NOVAL



CAPACITANCES

Without external screening

Anode to grid	C_{ag}	=	1.2 pF
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With external screening (inside diameter 22.2 mm)

Anode to grid	C_{ag}	=	1.7 pF
Grid to heater and cathode	$C_{g(k+f)}$	=	3.8 pF
Anode to heater and cathode	$C_{a(k+f)}$	=	0.055 pF

LIMITING VALUES (Design centre limits)

Anode voltage in cold condition	V_{ao}	=	max. 550 V
Anode voltage	V_a	=	max. 175 V
Anode dissipation	W_a	=	max. 2 W
Cathode current	I_k	=	max. 13 mA
Negative grid voltage	$-V_g$	=	max. 50 V
External grid resistance (at cathode resistor $R_k = 100 \Omega$)	$R_g (R_k = 100 \Omega)$	=	max. 1 M Ω
Voltage between heater and cathode	V_{kf}	=	max. 100 V ¹⁾

¹⁾ To fulfil the modulation hum requirements, the A.C. component should not exceed 50 V (R.M.S.)

CHARACTERISTICS

Heater current	$I_f =$	300 mA ¹⁾
Anode voltage	$V_a =$	160 V ¹⁾
Cathode resistor	$R_k =$	100 Ω ¹⁾
Anode current	$I_a =$	12.5 mA
Mutual conductance	$S =$	13.5 mA/V
Amplification factor	$\mu =$	65
Equivalent noise resistance	$R_{eq} =$	240 Ω
Noise figure	$F =$	10 dB
Heater current	$I_f =$	300 mA
Anode voltage	$V_a =$	0 V
Positive grid current	$+I_g =$	0.3 μ A
Negative grid voltage	$-V_g =$	max. 1.3 V

Series resonance frequencies

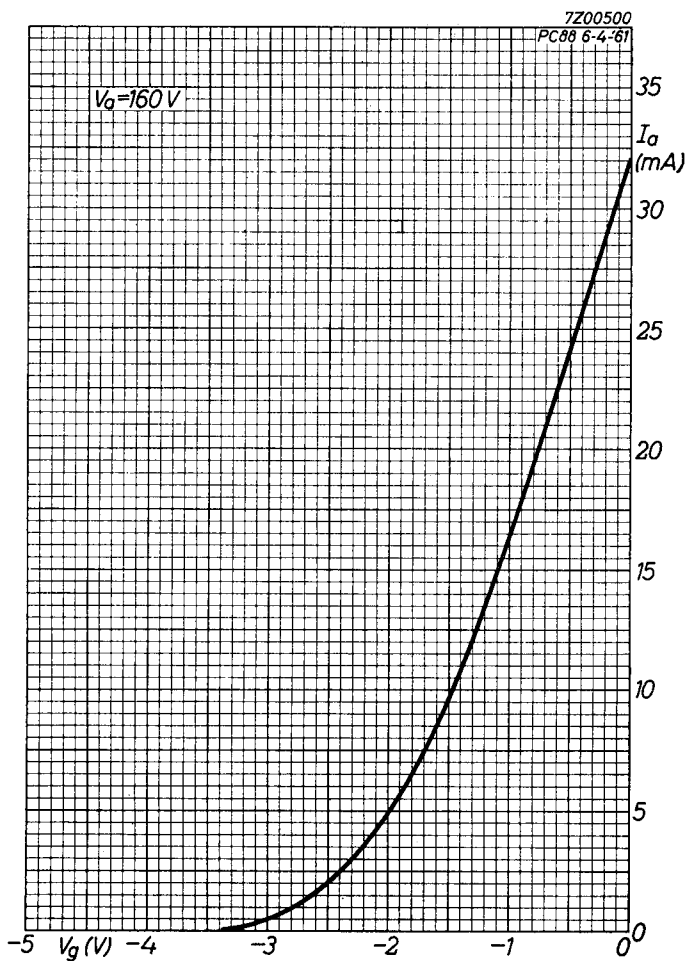
Measured between a point on the relevant tube pin close to the tube bottom and a point close to the relevant pin on a metal reference plane, placed against the tube bottom. All the pins, except the relevant one, are connected to the reference plane with a negligible impedance. The tube is screened by a metal cylinder with an inside diameter of 22.2 mm placed upon the metal reference plane.

Heater voltage	$V_f =$	0 V
Anode voltage	$V_a =$	0 V
Anode resonance frequency	$f_{oa} =$	1700 Mc/s
Cathode resonance frequency	$f_{ok} =$	1000 Mc/s

¹⁾ Recommended operating conditions

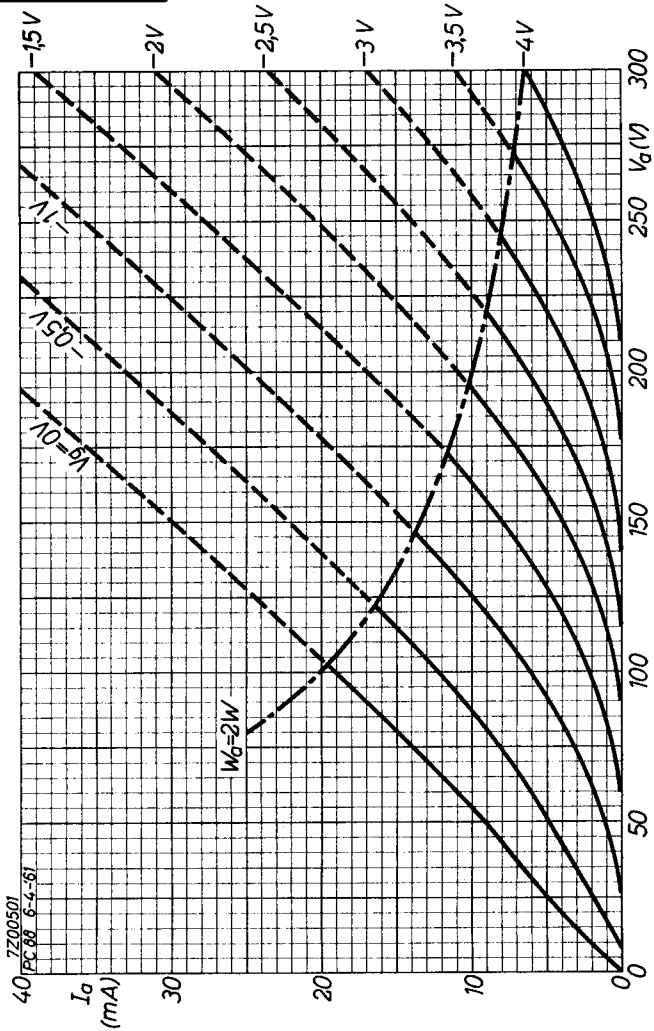
PHILIPS

PC 88



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*Electronic
Tube*

HANDBOOK

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2	2	1962.07.07
3	A	1961.04.04
4	B	1961.04.04
5	FP	2000.04.09