

SPECIAL QUALITY TRIODE for use as amplifier tube in probes

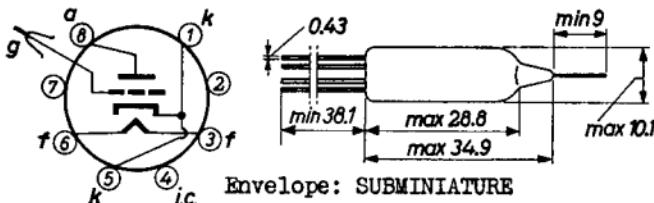
HEATING

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

Heater voltage $V_f = 6.3$ V

Heater current $I_f = 185$ mA

Dimensions in mm



CAPACITANCES Without external shield

Anode to grid	$C_{ag} = 1.9$ pF
Anode to cathode	$C_{ak} = 0.5$ pF
Anode to heater	$C_{af} = 0.3$ pF
Grid to cathode	$C_{gk} = 3.5$ pF
Grid to heater	$C_{gf} = 0.05$ pF

LIMITING VALUES (Absolute limits)

Anode voltage in cold condition	V_{ao} = max. 275 V
Anode voltage	V_a = max. 110 V
Anode dissipation	W_a = max. 1.5 W
Negative grid voltage	$-V_g$ = max. 55 V
External grid resistance	R_g = 1)
Cathode current	I_k = max. 22 mA
Voltage between heater and cathode	V_{kf} = max. 55 V
Bulb temperature	t_{bulb} = max. 170 °C

- ¹) The grid resistance should be restricted to a value such that no limiting values are exceeded at $-I_g = 0.01$ µA. For calculating the max. permissible value of R_g the D.C. feedback factor of the operating circuit may be taken into account
In practice the maximum usable R_g value will also be defined by the required current stability and the permissible hum level

TYPICAL CHARACTERISTICS

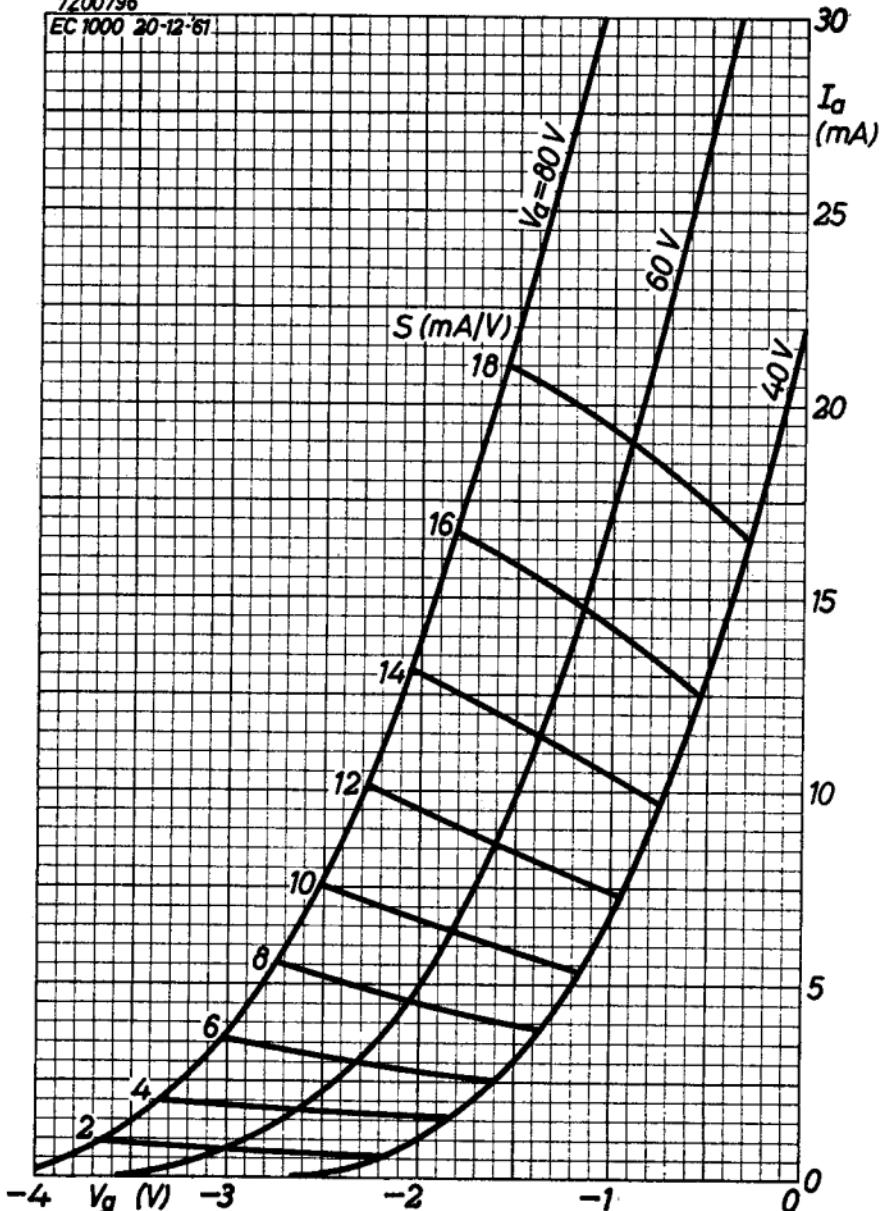
Heater voltage	V _f	=	6.3 V
Anode voltage	V _a	=	80 V
Anode current	I _a	=	14 mA
Mutual conductance	S	=	14.5 mA/V
Amplification factor	μ	=	24
Heater voltage	V _f	=	6.3 V
Anode voltage	V _a	=	80 V
Grid voltage	V _g	=	-2 V
Anode current	I _a	=	14 mA
Input resistance at 250 Mc/s	R _g	=	450 Ω
Input resonance frequency	f _{res}	=	400 Mc/s
Negative grid current after 1000 hours of operation	-I _g	<	0.01 μ A ¹⁾
Equivalent noise voltage on the grid	V _{gnoise}	<	1 mV ²⁾
Equivalent microphony volt- age on the grid	V _{gmicr}	<	1 mV ³⁾
Heater voltage	V _f	=	6.3 V
Grid resistor	R _g	=	0.5 M Ω
Cathode resistor at $f = 50$ c/s	R _k	=	100 Ω
Equivalent hum voltage on the grid	V _{ghum}	<	1 mV ⁴⁾

¹⁾ End of life value²⁾ R.M.S. value measured with a straight response filter
0-10000 c/s³⁾ R.M.S. value measured with an acceleration with a peak
value of 4 g at a frequency of 50 c/s⁴⁾ R.M.S. value measured with a straight response filter
at a heater supply frequency of 50 c/s + 3 % 500 c/s.
Heater centre connected to earth

SQ**PHILIPS****EC1000**

7Z00796

EC 1000 20-12-61



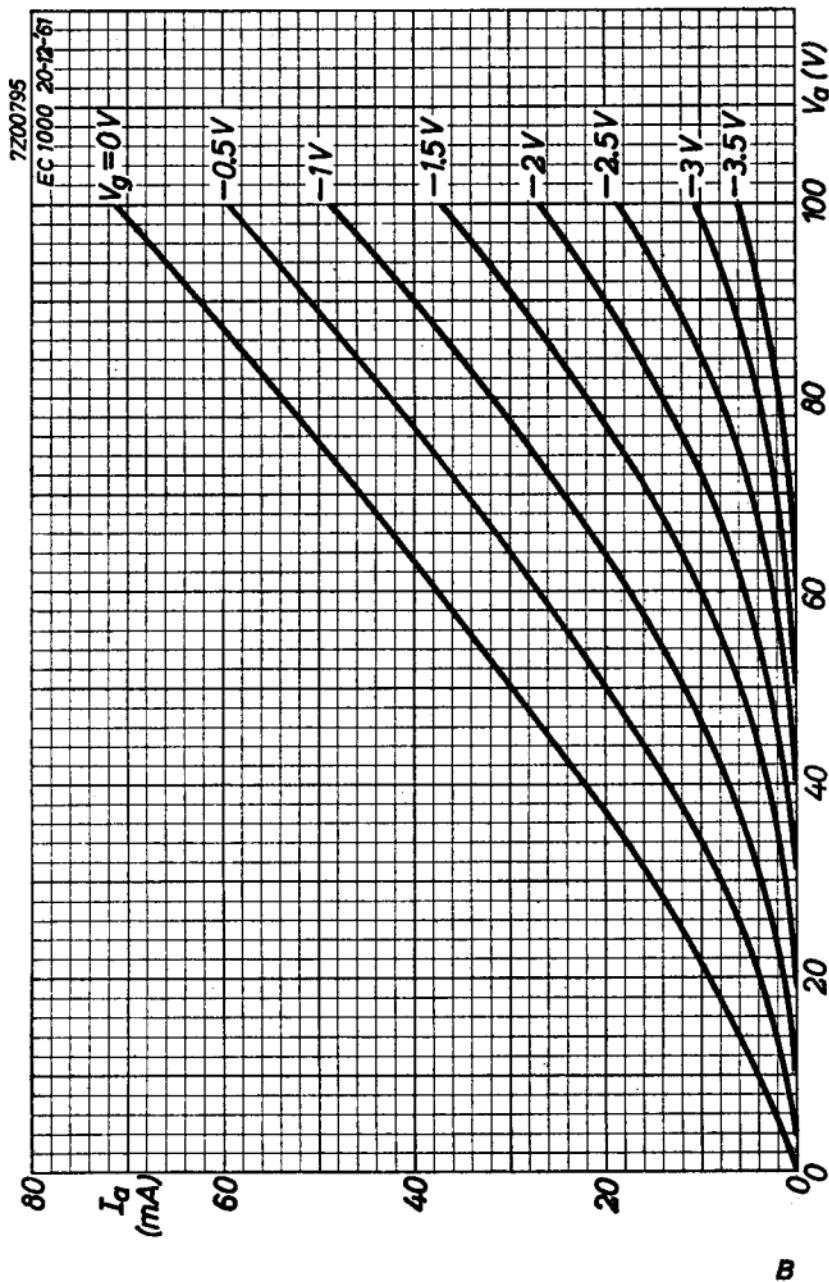
7.7.1962

A

EC1000

PHILIPS

SQ



PHILIPS

Electronic
Tube

HANDBOOK

EC1000

page	sheet	date
1	1	1962.07.07
2	2	1962.07.07
3	A	1962.07.07
4	B	1962.07.07
5	FP	1999.06.15