

R.F. DOUBLE TRIODE

Double triode with variable transconductance intended for use as V.H.F. cas-code amplifier in television receivers.

QUICK REFERENCE DATA

Anode current	I_a	15	mA
Transconductance	S	12.5	mA/V
Amplification factor	μ	31	-

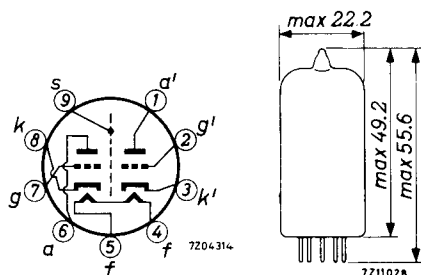
HEATING: Indirect by A.C. or D.C.; series supply

Heater current	I_f	300	mA
Heater voltage	V_f	7.6	V

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Noval



CAPACITANCES

		with external screen 22.2 mm diam.	without external screen
Grid to cathode + heater + screen	$C_{g/kfs}$	3.5	3.5 pF
Anode to cathode + heater + screen	$C_{a/kfs}$	2.3	1.7 pF
Anode to grid	C_{ag}	1.9	1.9 pF
Grid to heater	C_{gf}	max. 0.28	max. 0.28 pF
Cathode to grid + heater + screen	$C_{k'/g'fs}$	6.0	6.0 pF
Anode to grid, heater + screen	$C_{a'/g'fs}$	4.0	3.4 pF
Anode to cathode	$C_{a'k'}$	0.17	0.18 pF
Cathode to heater	$C_{k'f}$	2.7	2.7 pF
Anode to grid	$C_{a'g'}$	1.9	1.9 pF
Anode to anode	$C_{aa'}$	max. 0.015	max. 0.045 pF
Grid to anode other unit	$C_{ga'}$	max. 0.004	max. 0.004 pF

TYPICAL CHARACTERISTICS (each unit)

Anode voltage	V_a	90 V
Grid voltage	V_g	-1.4 V
Anode current	I_a	15 mA
Transconductance	S	12.5 mA/V
Internal resistance	R_i	2.5 k Ω
{ Grid voltage Transconductance	V_g	-5 V
	S	0.625 mA/V
{ Grid voltage Transconductance	V_g	-9 V
	S	0.125 mA/V

LIMITING VALUES (Design centre rating system) (Each unit)

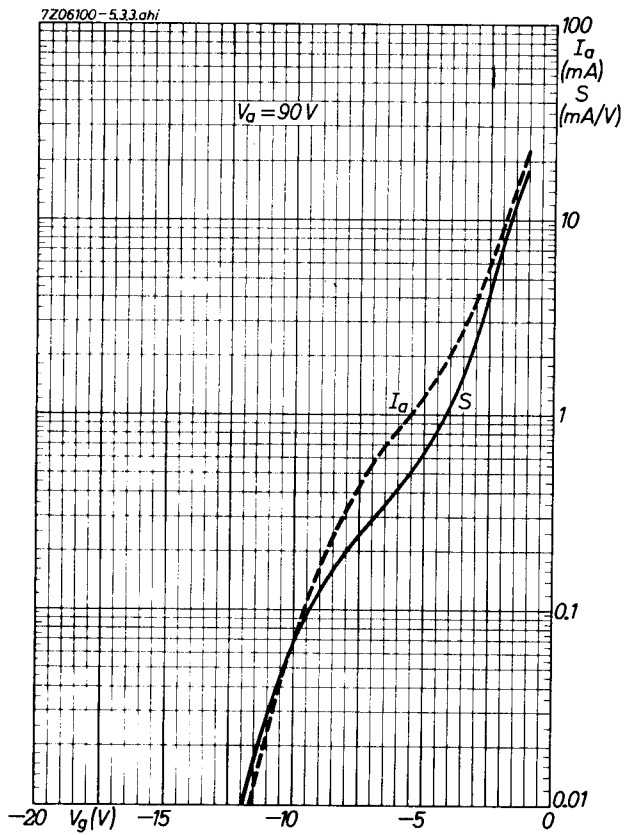
Anode voltage	V_{a0}	max.	550 V
	V_a	max.	130 V
Anode dissipation	W_a	max.	1.8 W
Grid voltage	$-V_g$	max.	50 V
Grid resistor			
unit a, g, k	R_g	max.	1 M Ω
unit a', g', k'	$R_{g'}$	max.	0.5 M Ω
Cathode current	I_k	max.	22 mA
Cathode to heater voltage			
unit a, g, k	V_{kf}	max.	80 V
unit a', g', k' (cathode positive)	$V_{k'f}$	max.	180 V ¹⁾

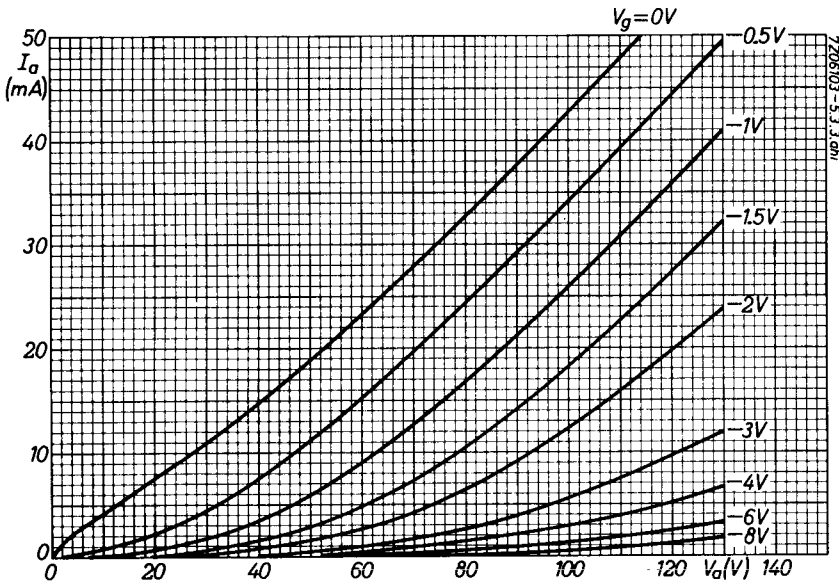
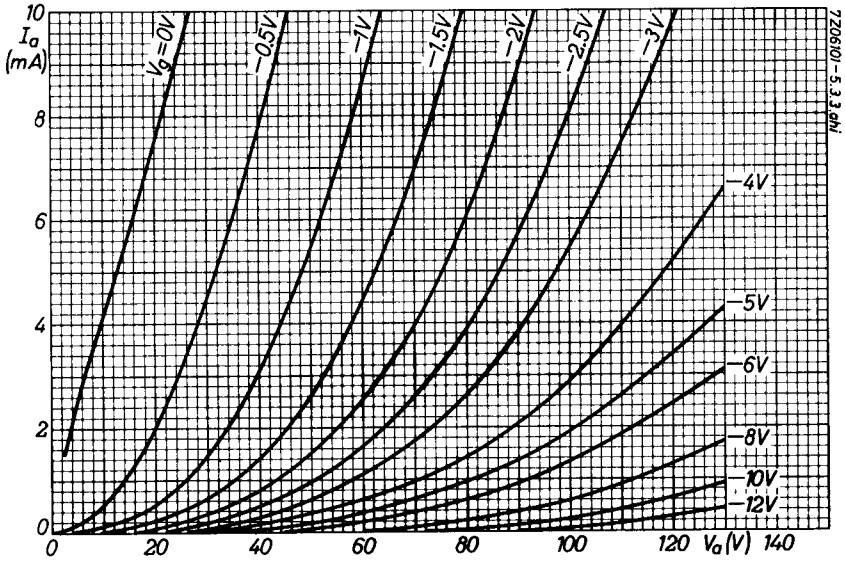
REMARKS

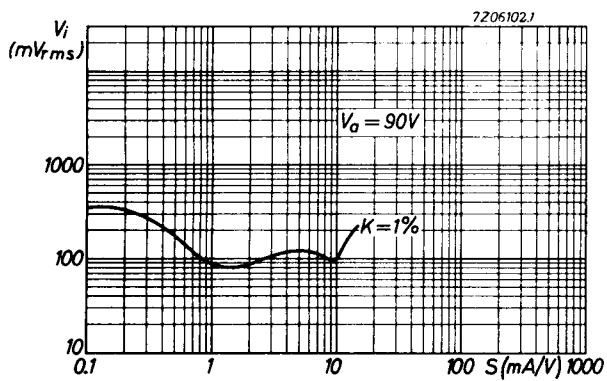
In order not to exceed the maximum permissible anode voltage when the tube is controlled, it is necessary to use a voltage divider for the grid of the grounded grid section.

The system a, g, k should be used as the grounded cathode input section and the system a', g', k' as the grounded grid output section.

¹⁾ D. C. component max. 130 V.







PHILIPS

Data handbook



**Electronic
components
and materials**

PCC189

page	sheet	date
1	1	1969.12
2	2	1969.12
3	3	1969.01
4	4	1969.01
5	5	1969.01
6	6	1969.12
7	FP	1999.07.31