

VIDEO OUTPUT PENTODE

Pentode intended for use as video output tube.

QUICK REFERENCE DATA		
Anode current	I_a	36 mA
Transconductance	S	10.5 mA/V
Amplification factor	$\mu_{g_2g_1}$	24 -

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

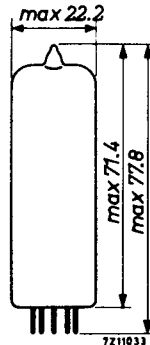
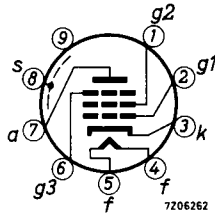
Heater current
Heater voltage

I_f 300 mA
 V_f 15 V

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Noval



CAPACITANCES

Anode to all except grid No.1
Grid No.1 to all except anode
Anode to grid No.1
Grid No.1 to grid No.2
Grid No.1 to heater

$C_a(g_1)$ 6.6 pF
 $C_{g_1(a)}$ 10.8 pF
 C_{ag_1} max. 0.1 pF
 $C_{g_1g_2}$ 3.2 pF
 C_{g_1f} max. 0.15 pF

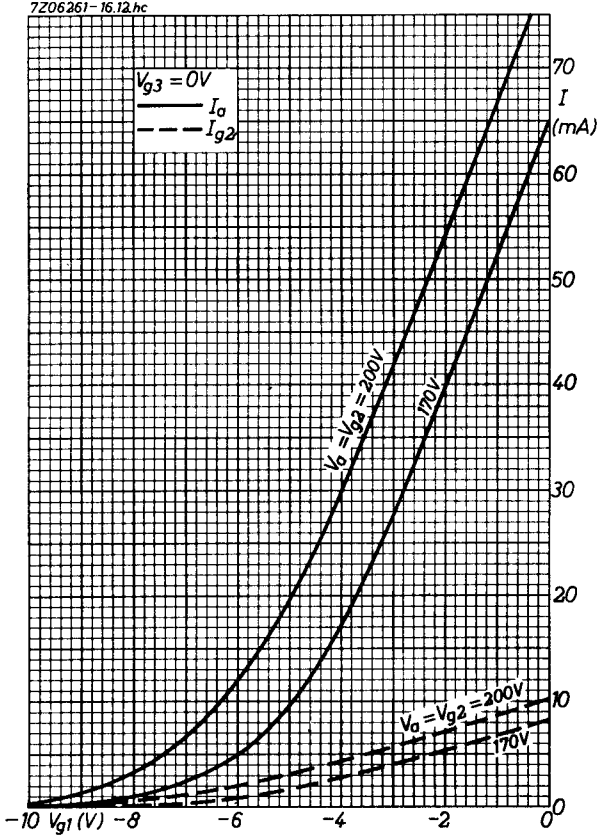
TYPICAL CHARACTERISTICS

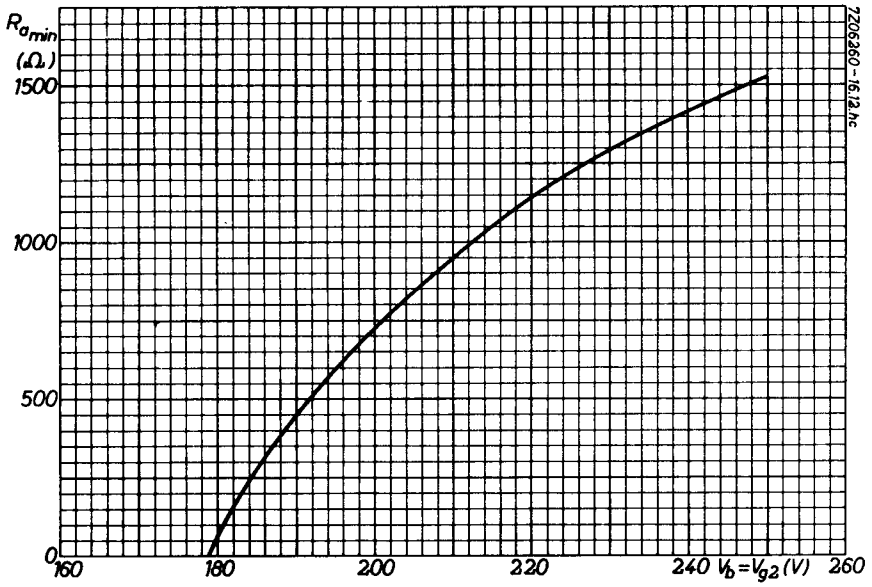
Anode voltage	V_a	170	200	V
Grid No.3 voltage	V_{g3}	0	0	V
Grid No.2 voltage	V_{g2}	170	200	V
Grid No.1 voltage	V_{g1}	-2.3	-3.5	V
Anode current	I_a	36	36	mA
Grid No.2 current	I_{g2}	5.0	5.0	mA
Transconductance	S	10.5	10.5	mA/V
Amplification factor	μ_{g2g1}	24	24	-
Internal resistance	R_i	0.1	0.1	M Ω

LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a0}	max.	550	V
	V_a	max.	250	V
Grid No.2 voltage	V_{g20}	max.	550	V
	V_{g2}	max.	250	V
Anode dissipation	W_a	max.	9	W
Grid No.2 dissipation	W_{g2}	max.	2	W
Cathode current	I_k	max.	70	mA
Grid No.1 resistor				
for fixed bias	R_{g1}	max.	0.5	M Ω
for automatic bias	R_{g1}	max.	1	M Ω
Cathode to heater voltage	V_{kf}	max.	200	V ¹⁾

1) D.C. component max. 150 V





PHILIPS

Data handbook



Electronic
components
and materials

PL83

page	sheet	date
1	1	1969.12
2	2	1969.01
3	3	1969.01
4	4	1969.01
5	FP	1999.08.03