

POWER PENTODE

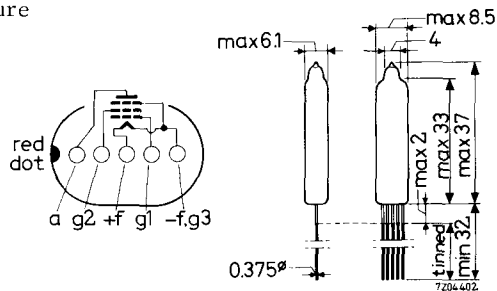
Pentode intended for use as power amplifier.

QUICK REFERENCE DATA	
Life test	500 hours
Base	Subminiature
Heating	Direct Battery supply
Heater voltage	V_f 1.25 V
Heater current	I_f 25 mA

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Subminiature



Leads should not be soldered nearer than 5 mm to the seal

Leads should not be bent nearer than 1.5 mm to the seal.

CHARACTERISTICS

Anode voltage	V_a	22.5 V
Grid No.2 voltage	V_{g2}	22.5 V
Anode current	I_a	600 μ A
Grid No.2 current	I_{g2}	150 μ A
Grid No.1 voltage	$-V_{g1}$	2.2 V
Mutual conductance	S	430 μ A/V
Internal resistance	R_i	100 $k\Omega$
Amplification factor	μ_{g2g1}	5

CAPACITANCE

Anode to grid No.1	C_{ag1}	max. 0.15 pF
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LIMITING VALUES (Design centre rating system)

Anode voltage	V_a	max. 45 V
Grid No.2 voltage	V_{g2}	max. 45 V
Anode dissipation	W_a	max. 100 mW
Grid No.2 dissipation	W_{g2}	max. 25 mW
Cathode current	I_k	max. 2.3 mA

OPERATING CHARACTERISTICSAs class A amplifier (one tube)

Anode voltage	V_a	22.5 V
Grid No.2 voltage	V_{g2}	22.5 V
Grid No.1 voltage	$-V_{g1}$	2.2 V
Anode resistance	$R_{a\sim}$	37.5 $k\Omega$
Anode current ($V_i = \text{zero}$)	I_a	600 μ A
Grid No.1 current ($V_i = \text{zero}$)	I_{g2}	150 μ A
Input voltage	V_i	1.3 V_{RMS}
Output power	W_o	5 mW
Distortion	d	10 %

PHILIPS

Data handbook



Electronic
components
and materials

DL68

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