



ELECTRONIC TUBE REFERENCE

EL1

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Power/output pentode designed for audio-frequency power amplification in single-ended or push-pull output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	32 mA
<i>5 W output pentode</i>	

Indirectly heated output pentode intended for audio-frequency power amplification, with typical operating characteristics, output-stage data, capacitances, and limiting values.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PENTHODE (	5 W	—
Heizung intl. Vf	6.3 V	—
S (Ia	20 mA	—
Ri (Ia	20 mA	—
Vg1eff (5%)	5.3 V	—
Vg1eff (10%)	9.6 V	—
Wo (5%)	0.75 W	—
Wo (10%)	1.7 W	—
Wg2 max	1.2 W	—
Vg1 (Igi [1]	0.3 uA	—
Vg1 (Igi [2]	-1.3 V	—
Rg1a max	1 Megohm	—
Rg1f max a	0.6 Megohm	—
Vfk max	~ 50 V	—
Va	250 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Kapazitäten Cag	1.1 uF	—
Va	250 V	—
Vg2	250 V	—
Ia	20 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
V _{gl}	-23 V	—
I _{g2} =env	2 mA	—
S max	3.5 mA/V	—
V _{ao} max	400 V	—
V _{aL} max	250 V	—
W _a max	5 W	—
I _k max	32 mA	—
V _{g2o} max	400 V	—
V _{g2} max	250 V	—
I _{g2} min	1 mA	—
I _{g2} max	3 mA	—