



ELECTRONIC TUBE REFERENCE

EL2

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Receiving-type power pentode for conventional audio-frequency output amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	SideContact	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	70000 Ω
TRANSCONDUCTANCE	0.008 S
MAXIMUM PLATE VOLTAGE	550 V
<i>Reference/equivalence sheet; characteristics not reproduced. Values were not imported from EL32.</i>	

EL2 is listed in the supplied valve table as a power pentode. Published operating and characteristic values were transcribed from its target row.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Published table operating point
Screen voltage	250 V	Published table operating point
Plate current	32 mA	Published table operating point
Control-grid bias	18 V	Published table operating point
Power output	3.6 W	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	70000 ohm	Published table characteristic
Transconductance	8000 μ S	Published table characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating

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
betragt	2.8 mA/V	—
Heizspannung « « « « « « v v v v oo .. V	63 V	—
von 200 und	250 V	—
Ausgangsleistung fiir 10 %/, Verzerrung W,	3.6 W	—
Gitterwechselspannung fiir 10 %/, Verzerrung . Vi	10 V	—
Gitterwechselspannung fiir	50 mW	—
Schirmgitterruhestrom . . . Iy2o	2 X 4.4 mA	—
Schirmgitterstrom bei voller Aussteuerung Iz max	2 X 8.0 mA	—
Grofite Ausgangsleistung. . Womax	81 W	—
— /	-9 V	—
e ' e	30 V	—
300 400 500 600 meter fiir Vg,	250 V	—
spannung bei Ve = 200 und	250 V	—
Grenzwert des Gltterstromemsatzpunkteb Vé.1 (Ig1 [1])	0.3 pA	—
Grenzwert des Gltterstromemsatzpunkteb Vé.1 (Ig1 [2])	1.3 V	—
(Gleichsp. oder Effektivwert der Wechselfp.) Vi = max	100 V	—
HI T;A T Ve = Vg2	250 V	PushPull
! T	2 ma	PushPull
Va x Vg2	250 V	—
Va = Vg,	250 V	PushPull
I,	32 mA	—
T,	32 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anodenspannung. V_e	250 V	OneTube
Schirmgitterspannung. V_g	250 V	OneTube
Negative Gittervorspannung. $V_g = -$	18 V	OneTube
Anodenstrom I_s	32 mA	OneTube
Schirmgitterstrom . . e v v oo oo oIz	5 mA	OneTube
Steilheit im Arbeitspunkt e	2.8 mA/V	OneTube
Anodenspannung V_e ,	250 V	PushPull;TwoTubes
Schirmgitterspannung . . . V_e	250 V	PushPull;TwoTubes
Anodenstrom . . I PP	2 X 27.5 mA	PushPull;TwoTubes
Anodenstrom bei voller Aussteuerung . Jamax	2 X 32 mA	PushPull;TwoTubes
nung . V_e [1]	250 V	TriodeConnection
nung . V_e [2]	250 V	TriodeConnection
Negative Gittervorspannung V_g [1]	271 V	TriodeConnection
Negative Gittervorspannung V_g [2]	20 V	TriodeConnection
Anodenstrom I [1]	15 mA	TriodeConnection
Anodenstrom I [2]	30 mA	TriodeConnection
Steilheit im Arbeitspunkt § [1]	17 mA/V	TriodeConnection
Steilheit im Arbeitspunkt § [2]	2.6 mA/V	TriodeConnection
Maximale Anodenkaltspannung . $V_{ao} = \max$	550 V	—
Maximale Anodenspannung. . $V_a = \max$,	250 V	—
Maximale Anodendauerbelastung . $W_a - :$ max	8 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximale Schirmgitterkaltspannung . Ve == max	550 V	—
Maximale Schirmgitterspannung Vs = max	250 V	—
Maximale Schirmgitterdauerbelastung . W, = max	1.6 W	—
Maximaler Kathodenstrom . . . R = max	45 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
o1 SRt A	2 pF	—
von 25 oder	50 uF	—
und Ve = Vg,	250 V	—