

ELECTRONIC TUBE REFERENCE

PL505

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-power line-output pentode designed for color-television horizontal-deflection circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	27 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
MAXIMUM PLATE VOLTAGE	7000 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	500 mA
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.	

High-power line-output pentode for color television horizontal-deflection circuits.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	27 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	25 W	Published maximum rating
Maximum peak anode voltage	7 kV	Published quick-reference value



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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode peak voltage Vap 7000 V	7000 A	Anode peak voltage Vap 7000 V
Cathode current Ik max. 500 mA	500 a	Cathode current Ik max. 500 mA
Anode dissipation Wa max. 25 W	25 A	Anode dissipation Wa max. 25 W

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation W_y max. 25 W	25 A	Anode dissipation W_y max. 25 W
Anode + grid No. 2 dissipation (triode connected) W_a+W_{g2} max. 26 W	26 A	Anode + grid No. 2 dissipation (triode connected) W_a+W_{g2} max. 26 W
Anode dissipation W_a max. 34 W	34 A	Anode dissipation W_a max. 34 W
Anode + grid No. 2 dissipation (triode connected) W_a-i-W_{g2} max. 35 W	35 A	Anode + grid No. 2 dissipation (triode connected) W_a-i-W_{g2} max. 35 W