



ELECTRONIC TUBE REFERENCE

PAW1215

Power - Pentode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Water-cooled Philips transmitting pentode designed for high-power RF amplifier and final-stage service. Its liquid-cooled construction supports substantially greater dissipation in professional transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	220 V / 80 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	4
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	12000 W
MAXIMUM SCREEN DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	11 A
<i>High-power transmitting pentode; maximum ratings and representative RF characteristic promoted.</i>	

Water-cooled transmitting pentode for high-power RF amplifier and final-stage service. The supplied Philips source was read for heater/filament data, ratings, characteristics, RF/television operating conditions, and capacitances where published.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	12000 V	—
Typical screen and suppressor voltage	1500 V	—
Typical plate current	1 A	—
Transconductance	8000 μ S	—
Screen-grid amplification factor	4	—
Maximum tested plate dissipation	15 kW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	30.5 pF	—
Grid-cathode capacitance	31 pF	—
Plate-grid capacitance	0.12 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class C RF output power	21 kW	ClassC;Telegraphy;Wavelength $\geq$ 150m
Class C efficiency	63.5 %	ClassC;Telegraphy;Wavelength $\geq$ 150m

TUBE TINKER

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and their source documents.

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