



ELECTRONIC TUBE REFERENCE

PE1100

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Power pentode designed for RF transmitting, linear RF amplification, oscillation, modulation, or RF/LF power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 1.35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
<i>Promoted where the locked schema directly matches published RF values; frequency/service-specific limits and operating conditions are retained as parameter rows.</i>	

Indirectly heated power pentode for RF and LF amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1000 V	RFPowerTube
Maximum screen voltage	300 V	RFPowerTube
Application	Indirectly heated power pentode for RF and LF amplifier service.	SourceDescription
Service category	RF/AF power service as specified in source	RFPowerTube
Heater/filament voltage	12.6 V	RFPowerTube
Heater/filament current	1.35 A	RFPowerTube
Plate voltage	1000 V	RFPowerAmplifier
Plate current	177 mA	RFPowerAmplifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating method	Indirect	RFPowerTube
Device class	Pentode	RFPowerTube

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6000 μ S	RFPowerTube
Screen-to-control-grid amplification factor	6.7	RFPowerTube

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	11 pF	RFPowerTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	20.5 pF	RFPowerTube



SOURCE DATA APPENDIX

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
Transconductance	6000 μ S	Ia=40mA
Anode capacitance	11 pF	—
Grid capacitance	20.5 pF	—
Anode-grid capacitance	0.1 pF	—

TUBE TINKER

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and their source documents.

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