

ELECTRONIC TUBE REFERENCE

EFP60

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Secondary-emission pentode for stable wideband amplification, high-speed computer circuits, and high-quality television pulse and signal processing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 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	0.01 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.4 W
Published ratings/characteristics promoted from the approved source.	

Secondary-emission pentode for stable wide-band amplification, high-speed computer service, and high-quality television applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	3 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10000 μ S	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

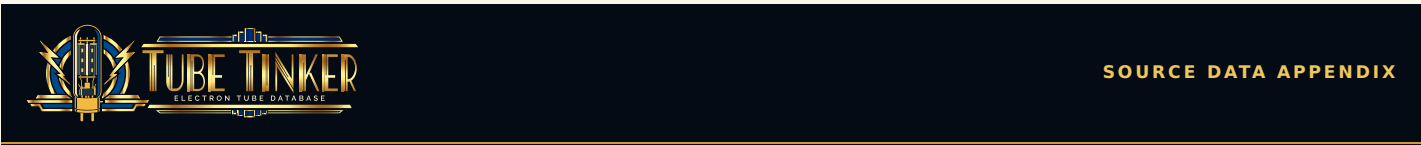
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1958 AMPEREX INDUSTRIAL

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2 W	—
Maximum plate voltage	300 V	—
Maximum plate current	20 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	25000 μ S	—
Grid-to-plate capacitance	0.004 pF	—
Input capacitance	9.2 pF	—
Output capacitance	6 pF	—



SOURCE OPERATING CONDITIONS

SOURCE PDF

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	1000 MHz	WideBandAmplifier
Application	Secondary-emission pentode for wide-band amplifier service	Section1
Application	High-speed computer and high-quality television equipment	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.004 pF	Section1
Input capacitance	9.2 pF	Section1
Output capacitance	6 pF	Section1



1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating
Transconductance	25000 μS	SecondaryEmission

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	SecondaryEmission
Secondary-emission cathode voltage	150 V	SecondaryEmission
Screen voltage	250 V	SecondaryEmission
Grid bias	-2 V	SecondaryEmission
Plate current	20 mA	SecondaryEmission
Secondary-emission current	-15.6 mA	SecondaryEmission
Screen current	1.5 mA	SecondaryEmission
Maximum plate voltage	300 V	Published limit
Maximum plate dissipation	2 W	Published limit
Maximum screen voltage	300 V	Published limit



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Heating
Heater current	300 mA	Heating
Maximum plate voltage	300 V	Promoted published datasheet value
Maximum screen voltage	300 V	Promoted published datasheet value
Maximum plate dissipation	2 W	Promoted published datasheet value
Maximum screen dissipation	0.4 W	Promoted published datasheet value
V _{ao} = max	550 V	Limiting values
V _a = max	300 V	Limiting values

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	70000 Ω	Promoted published datasheet value
Transconductance	25000 μS	Promoted published datasheet value
Kapazititen C _{gl} =	9.2 pF	Published datasheet value
V _a =	25 V	Published datasheet value
V _{k3} =	150 V	Published datasheet value
V _{g2} =	250 V	Published datasheet value
V _{g1} =	-2 V	Published datasheet value
I _a =	20 mA	Published datasheet value
I _{k3} =	-15.6 mA	Published datasheet value
I _{g2} =	1.5 mA	Published datasheet value
S =	25 mA/V	Published datasheet value
R _i =	70 k Ω	Published datasheet value
I _{Tk3} =	15.6 mA	Published datasheet value
I _{pt} =	3.5 mA	Published datasheet value
I _{p2} =	1 mA	Published datasheet value
I'Got =	26 mA	Published datasheet value

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

