ELECTRONIC TUBE REFERENCE

7199

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

> Medium-mu triode and sharp-cutoff pentode for high-fidelity audio phase splitting, tone control, and voltage amplification.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 450 mA	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Dissimilar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	8100 Ω
TRANSCONDUCTANCE	0.0021 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	20 mA

Published ratings and characteristics promoted from the supplied Sylvania source.

SECTION2 Pentode

PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.55 W
MAXIMUM CATHODE CURRENT	25 mA

Published ratings and characteristics promoted from the supplied Sylvania source.

Medium-mu triode and sharp-cutoff pentode for high-fidelity audio phase splitters, tone controls, and voltage amplification.

SOURCE OPERATING CONDITIONS

1950 Sylvania

SOURCE PDF

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

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage	**6.3 V**	—
Heater Current	**450 mA**	—
Application	**High Fidelity Audio**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater voltage	**6.3 V**	—
Heater current	**450 mA**	—
Amplification factor	**17**	—
Plate resistance	**8100 ohm**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater-cathode voltage maximum heater negative	**200 V**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-cathode voltage maximum heater positive DC	**100 V**	—

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**High-fidelity phase inverter / preamplifier**	—

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Triode grid-to-plate capacitance	**2 pF**	—
Triode input capacitance	**2.3 pF**	—
Triode output capacitance	**0.3 pF**	—

Section 2 · Pentode

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Pentode grid1-to-plate capacitance maximum	**0.06 pF**	—
Pentode input capacitance	**5 pF**	—
Pentode output capacitance	**2 pF**	—

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate resistance	**1 Mohm**	—

SOURCE OPERATING CONDITIONS

1971 RCA HB3 Binder 5 of 7

SOURCE PDF

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

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater voltage	**6.3 V**	—
Heater current	**450 mA**	—
Plate supply voltage	**215 V**	Triode
Grid voltage	**-8.5 V**	Triode
Plate current	**9 mA**	Triode
Equivalent hum/noise median	**10 uV RMS**	Triode
Equivalent hum/noise maximum	**150 uV RMS**	Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Amplification factor	**17**	Triode
Plate resistance	**8100 ohm**	Triode
Transconductance	**2100 uS**	Triode

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid-to-plate capacitance	**2 pF**	Triode

Section 2 · Pentode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate supply voltage	**220 V**	Pentode
Screen supply voltage	**130 V**	Pentode
Cathode resistor	**62 ohm**	Pentode
Plate current	**12.5 mA**	Pentode
Screen current	**3.5 mA**	Pentode
Equivalent hum/noise median	**35 uV RMS**	Pentode
Equivalent hum/noise maximum	**100 uV RMS**	Pentode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate resistance	**400000 ohm**	Pentode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	**7000 uS**	Pentode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	**0.06 pF**	Pentode

SOURCE OPERATING CONDITIONS

1975 RCA RC30

SOURCE PDF

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

1975 RCA RC30

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage	**200 V**	AbsoluteValue
Average Heater-Cathode Voltage	**100 V**	AbsoluteValue

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate Capacitance	**2 pF**	TriodeUnit
Grid to Cathode and Heater Capacitance	**2.3 pF**	TriodeUnit
Plate to Cathode and Heater Capacitance	**0.3 pF**	TriodeUnit

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	**215 V**	ClassA
Plate Current	**9 mA**	ClassA

Section 2 · Pentode

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid No.1 to Plate Capacitance	**0.06 pF**	Maximum
Grid No.1 Input Capacitance	**5 pF**	PentodeUnit
Plate Output Capacitance	**2 pF**	PentodeUnit

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Supply Voltage	**220 V**	ClassA
Screen Supply Voltage	**130 V**	ClassA
Plate Current	**12.5 mA**	ClassA
Screen Current	**3.5 mA**	ClassA

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker