



ELECTRONIC TUBE REFERENCE

40

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-mu triode for resistance- or impedance-coupled voltage amplification and detector service, also used as a replacement in older receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4D	BASE PINS	4
NOMINAL HEATER	5 V / 250 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0002 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	180 V
<i>Electrical section extracted from approved source.</i>	

High-mu triode for resistance- or impedance-coupled voltage amplification and detector service; also used as a replacement tube in older receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	180 V	ClassA
Grid Voltage	-3 V	ClassA
Plate Current	2.8 mA	ClassA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	5 V	Published nominal value
Heater or filament current	250 mA	Published nominal value
Transconductance	200 μ S	Published representative/high operating value
Amplification factor	30	Published representative/high operating value
Plate resistance	150000 ohm	Published representative/high operating value

OTHER		

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Resistance-coupled or impedance-coupled voltage amplifier/detector	Published use


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1950 Sylvania

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
Plate Resistance	150000 ohm	—
Transconductance	200 μ S	—
Amplification Factor	30	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	180 V	—
Plate Voltage	135 V	—
Plate Current	0.2 mA	—
Load Impedance	250000 ohm	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	180 V	ClassA
Grid Voltage	-3 V	ClassA
Plate Current	2.8 mA	ClassA

TUBE TINKER

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and their source documents.

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