



ELECTRONIC TUBE REFERENCE

56

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

General-purpose triode for detector and amplifier service in receiving and general electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5A	BASE PINS	5
NOMINAL HEATER	2.5 V / 1 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	9500 Ω
TRANSCONDUCTANCE	0.00146 S
AMPLIFICATION FACTOR	13.8
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM CATHODE CURRENT	10 mA
Source states ratings are identical to type 76 but does not reproduce the maximum-rating table; only directly printed operating characteristics are promoted (reference/equivalence sparse exception).	

General-purpose detector and amplifier triode.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	3.2 pF	—
Input capacitance	3.2 pF	—
Output capacitance	2.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Grid bias	-5 V	ClassA; PlateVoltage=100V
Plate current	2.5 mA	ClassA; PlateVoltage=100V
Plate voltage	250 V	ClassA
Grid bias	-13.5 V	ClassA; PlateVoltage=250V
Plate current	5 mA	ClassA; PlateVoltage=250V
Plate voltage	45 V	Detector; GridLeak
Grid leak resistance	1–5 MOhm	Detector; GridLeak
Grid condenser	0.00025 uF	Detector; GridLeak

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	12000 ohm	ClassA; PlateVoltage=100V
Transconductance	1150 uS	ClassA; PlateVoltage=100V
Plate resistance	9500 ohm	ClassA; PlateVoltage=250V
Transconductance	1450 uS	ClassA; PlateVoltage=250V

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Cunningham

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

193X CUNNINGHAM

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2.5 V	Published nominal
Heater/filament current	1 A	Published nominal
Transconductance	1450 μ S	Published characteristic
Amplification factor	13.8	Published characteristic
Plate resistance	9500 Ω m	Published characteristic

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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	2.5 V	Nominal
HeaterCurrentNominal	1 A	Nominal
Maximum Plate Voltage	250 V	—
Maximum Cathode Current	10 mA	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1450 μ S	Typical

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	13.8	Typical
Plate Resistance	9500 ohm	Typical



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	13.5 V	ClassA
Plate current	5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	9500 ohm	Published handbook characteristic
Transconductance	1460 μ S	Published handbook characteristic
Amplification factor	13.8	Published handbook characteristic
Heater/filament voltage	2.5 V	Published heater/filament rating
Heater/filament current	1 A	Published heater/filament rating



SOURCE DATA APPENDIX

1961 Tung Sol

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

1961 TUNG SOL
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	2.5 V	—
Heater current	1 A	—
Plate voltage	250 V	ClassA1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	5 mA	ClassA1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	3.2 pF	—
Grid-to-cathode capacitance	3.2 pF	—
Plate-to-cathode capacitance	2.2 pF	—