

ELECTRONIC TUBE REFERENCE

76

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

General-purpose triode for amplifier and detector service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6A	BASE PINS	5
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 Triode	
PLATE RESISTANCE	9500 Ω
TRANSCONDUCTANCE	0.00145 S
AMPLIFICATION FACTOR	13.8
MAXIMUM PLATE VOLTAGE	250 V
Published ratings and characteristics mapped semantically; identical repeated sections compressed.	

General-purpose triode amplifier and detector.

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	2.8 pF	Section1
Input capacitance	3.5 pF	Section1
Output capacitance	2.5 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Control-grid voltage	-5 V	ClassA
Plate current	2.5 mA	ClassA
Plate voltage	250 V	ClassA
Control-grid voltage	-13.5 V	ClassA
Plate current	3 mA	ClassA
Plate voltage	100 V	BiasedDetector
Plate voltage	250 V	BiasedDetector
Plate current	0.2 mA	BiasedDetector;NoSignal
Plate voltage	45 V	GridLeakDetector
Grid leak resistance minimum	1 MΩ	GridLeakDetector
Grid leak resistance maximum	5 MΩ	GridLeakDetector
Grid condenser	0.00025 μF	GridLeakDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	12000 Ω	100VPlate
Transconductance	1150 μS	100VPlate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	13.8	Section1
Plate resistance	9500 Ω	250VPlate
Transconductance	1450 μS	250VPlate


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	6.3 V	Published nominal value
Heater or filament current	300 mA	Published nominal/aggregate value
Transconductance	1450 μS	Published operating characteristic
Amplification factor	13.8	Published operating characteristic

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2.8 pF	Published
Grid-to-cathode capacitance	3.5 pF	Published
Plate-to-cathode capacitance	2.5 pF	Published


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	250 V	—
Anode Current	5 mA	—
Control Grid Voltage	-13.5 V	—
Grid to Anode Capacitance	2.2 pF	—
Grid to Cathode Capacitance	3.4 pF	—
Anode to Cathode Capacitance	5.5 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
GridToAnodeCapacitance	2.2 pF	—
Grid To Cathode Capacitance	3.4 pF	—



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

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	1450 μ S	Published handbook characteristic
Amplification factor	13.8	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

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
Plate Voltage	250 V	ClassA1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Cathode Capacitance	3.6 pF	—
Plate To Cathode Capacitance	2.6 pF	—
Grid To Plate Capacitance	2.8 pF	—



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