

ELECTRONIC TUBE REFERENCE

6F5

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

High-mu triode for voltage-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5M	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	66000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
Published nominal characteristics at 250 V plate, -2 V grid.	

High-mu triode for voltage-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1935 RCA All Metal Radio Tubes

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

1935 RCA ALL METAL RADIO TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage	-2 V	—
Plate current	0.9 mA	—
Grid-plate capacitance	2 pF	—
Grid-cathode capacitance	6 pF	—
Plate-cathode capacitance	12 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate load resistor	0.25–1 MΩ	ResistanceCoupled
Voltage amplification	51–60	ResistanceCoupled



SOURCE OPERATING CONDITIONS

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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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	Published table

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wy R Plate Voltage	250 V	Published table
Py [™] Amplification Factor	100	Published table
SMRLL Plate Resistance	66000 ohm	Published table
OCTAL BRSE Transconductance	1500 uS	Published table
[y + Plate Current	0.9 mA	Published table
Plate Supply Voltage	250 V	Published table; Column1
Plate Supply Voltage	250 V	Published table; Column2
Plate Resistor	0.25 ohm	Published table; Column1
Plate Resistor	1 ohm	Published table; Column2
Plate Resistor	0.25 ohm	Published table; Column3
Plate Resistor	1 ohm	Published table; Column4
Plate Current	0.2 mA	Published table; Column1
Plate Current	0.4 mA	Published table; Column2
Plate Current	0.2 mA	Published table; Column3
Plate Current	0.4 mA	Published table; Column4
Voltage Output (RMS) I	11 V	Published table; Column1
Voltage Output (RMS) I	20 V	Published table; Column2
Voltage Output (RMS) I	14.5 V	Published table; Column3
Voltage Output (RMS) I	25.5 V	Published table; Column4



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 voltage	6.3 V	Published nominal value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	300 mA	Published nominal value
Transconductance	1500 μ S	Published operating characteristic
Amplification factor	100	Published operating characteristic

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2 pF	Published
Input capacitance	5 pF	Published


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
Tension de chauffage CA ou CC 6,3 6,3 volts	6.3 V	Tension de chauffage CA ou CC 6,3 6,3 volts
Courant de chauffage 0,3 0,3 ampère	300 mA	Courant de chauffage 0,3 0,3 ampère
Tension de chauffage 6,3 volts	6.3 V	Tension de chauffage 6,3 volts
Tension grille* wh i wee wee eee e -2 volts	2 V	Tension grille* wh i wee wee eee e -2 volts
Courant plaque* 0,9 ma.	0.9 mA	Courant plaque* 0,9 ma.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension plaque i sve il ere e e 250 volts max.	250 V	Tension plaque i sve il ere e e 250 volts max.


SOURCE DATA APPENDIX

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
Plate voltage	250 V	ClassA
Control-grid bias magnitude	2 V	ClassA
Plate current	0.9 mA	ClassA
Plate resistance	66000 ohm	ClassA
Transconductance	1500 uS	ClassA
Amplification factor	100	ClassA
Plate voltage	100 V	ClassA
Control-grid bias magnitude	1 V	ClassA
Plate current	0.4 mA	ClassA
Plate resistance	85000 ohm	ClassA
Transconductance	1150 uS	ClassA
Amplification factor	100	ClassA