

ELECTRONIC TUBE REFERENCE

6C5

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

General-purpose triode for amplifier and detector service in radio receiving equipment, combining small-signal voltage amplification with detector capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	60	BASE PINS	8
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	10000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM CATHODE CURRENT	20 mA
Published nominal characteristics at 250 V plate, -8 V grid.	

General-purpose triode amplifier/detector.



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	-8 V	—
Plate current	8 mA	—
Grid-plate capacitance	1.8 pF	—
Grid-cathode capacitance	4 pF	—
Plate-cathode capacitance	13 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage amplification	14	ResistanceCoupled
Voltage output at 5% second harmonic	42 V RMS	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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	Published table
//	39 V	ClassA; Column1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
//	4415 V	ClassA; Column2
//	250 V	ClassA; Column3
Plate Resistance	10000 ohm	ClassA
acm1.Mss Transconductance	2000 uS	ClassA
Plate Supply Voltage	250 V	ClassA
Grid Bias (approximate)	-5 V	ClassA
Plate Resistor	50000 ohm	ClassA; Column1
Plate Resistor	10000 ohm	ClassA; Column2
Plate Current	1 mA	ClassA
vVoltage Output (	5 V	ClassA; Column1
vVoltage Output (	42 V	ClassA; Column2
Plate Voltage	250 V	ClassA
Plate Current Adjusted to	0.2 mA	ClassA
Plate Voltage	45 V	ClassA; Column1
Plate Voltage	100 V	ClassA; Column2
Grid Leak Resistance	0.1 ohm	ClassA; Column1
Grid Leak Resistance	1 ohm	ClassA; Column2


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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	250 V	—
Maximum Cathode Current	20 mA	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	2000 μS	Typical
Amplification Factor	20	Typical
Plate Resistance	10000 ohm	Typical



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	300 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	8 V	ClassA
Plate current	8 mA	ClassA

Characteristic		
Parameter	Published Value	Condition / Note
Plate resistance	10000 ohm	Published handbook characteristic
Transconductance	2000 μS	Published handbook characteristic
Amplification factor	20	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

Capacitance		
Parameter	Published Value	Condition / Note
Input capacitance	3 pF	Published capacitance column
Output capacitance	11 pF	Published capacitance column

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2 pF	Published capacitance column



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	6.3 V	—
Heater current	300 mA	—
Plate voltage	250 V	Typical operating conditions
Plate current	8 mA	Typical operating conditions