

ELECTRONIC TUBE REFERENCE

6E6

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dual low-mu power triode designed for audio output, with its sections usable in push-pull or parallel Class A service. Published operation at 250 V gives about 1.6 W output with both sections.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7B	BASE PINS	7
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

7B - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – H	–	H – Heater	CONNECTED
PIN2 – 2P	B	P – Plate (Anode)	CONNECTED
PIN3 – 2G1	B	G1 – Control Grid	CONNECTED
PIN4 – K	A	K – Cathode	CONNECTED
PIN5 – 1G1	A	G1 – Control Grid	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
CAP1 – G4	A	G4 – Fourth Grid	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4300 Ω
TRANSCONDUCTANCE	0.0014 S
AMPLIFICATION FACTOR	6
MAXIMUM PLATE VOLTAGE	250 V
<i>Values promoted only where clearly published for this section in the approved source.</i>	

SECTION2 Triode	
PLATE RESISTANCE	4300 Ω
TRANSCONDUCTANCE	0.0014 S
AMPLIFICATION FACTOR	6
MAXIMUM PLATE VOLTAGE	250 V

Dual low-mu power triode in one envelope, usable with its sections in parallel or push-pull for Class-A audio power amplification.

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
EE Maximum Plate Voltage	250 V	Published table
Plate Voltage	180 V	ClassA; Column1
Plate Voltage	250 V	ClassA; Column2
Amplification Factor [μ]	6	ClassA
Transconductance	1400 μ S	ClassA; Column1
Transconductance	1700 μ S	ClassA; Column2
Plate Current	11.5 mA	ClassA; Column1
Plate Current	18 mA	ClassA; Column2
Plate Current (per plate)	11.5	ClassA; Column1
Plate Current (per plate)	18	ClassA; Column2
Load Resistance (plate to plate)	15000 ohm	ClassA; Column1
Load Resistance (plate to plate)	14000 ohm	ClassA; Column2
Power Output	0.75 W	ClassA; Column1
Power Output	1.6 W	ClassA; Column2

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 National Union

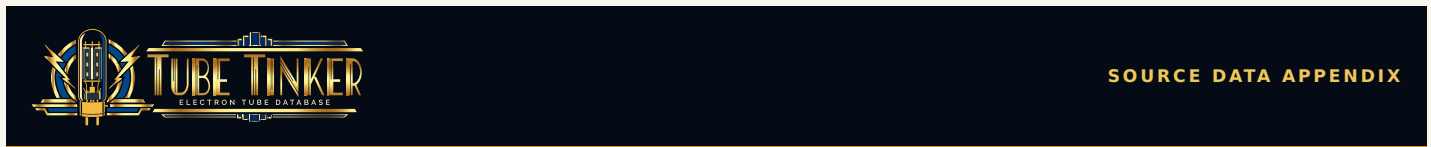
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 NATIONAL UNION

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (A.C. or D.C.)	6.3 Volts	Published source value; see source line context.
Plate Voltage	180 Volts	Published source value; see source line context.
Grid Voltage	-20 Volts	Published source value; see source line context.
Load Resistance	15000 Ohms	Published source value; see source line context.
Undistorted Power Output	0.75 Watts	Published source value; see source line context.
cathode circuit. For	250 volt	Published source value; see source line context.
resistor should be	770 volt	Published source value; see source line context.
operation, it should be	870 ohms	Published source value; see source line context.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	0.6 Amperes	Published source value; see source line context.
Plate Resistance	4300 Ohms	Published source value; see source line context.
bias, the resistance should not exceed	100000 ohms	Published source value; see source line context.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	18 mA	Per plate at 250 V
Plate-to-Plate Load Impedance	14000 ohm	Push-pull
Power Output	1.6 W	Both sections; 250 V

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
Plate voltage	250 V	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Control-grid bias magnitude	27.5 V	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Plate current	15 mA	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Plate resistance	3500 ohm	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Transconductance	1700 uS	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Amplification factor	6	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Load resistance	14000 ohm	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable
Power output	1.6 W	ClassA; BothSectionsPushPull; ValuesMarkedPerSectionWhereApplicable

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and their source documents.

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