

ELECTRONIC TUBE REFERENCE

6EZ8

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA
3 SECTIONS
CONSTRUCTION
TRIODE-TRIODE-TRIODE

High-mu triple triode intended primarily for FM tuner circuitry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9KA	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

9KA - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	C	K – Cathode	CONNECTED
PIN2	C	G1 – Control Grid	CONNECTED
PIN3	C	P – Plate (Anode)	CONNECTED
PIN4	A	K – Cathode	CONNECTED
PIN4	B	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN7	B	G1 – Control Grid	CONNECTED
PIN8	A	P – Plate (Anode)	CONNECTED
PIN9	A	G1 – Control Grid	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	57
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Representative row for three sections with shared published average characteristics; each-plate dissipation 2 W, total all plates 5 W.</i>	

SECTION2 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	57
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Physical triode restored.</i>	

SECTION3 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	57
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Third physical triode restored.</i>	

The 6EZ8 is a high-mu triple triode in nine-pin miniature construction, designed primarily for FM tuner service.



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
Service	FM tuner	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum_total_plate_dissipation_all_plates	5 W	—
Plate_voltage	125 V	Section1,Section2,Section3,ClassA
Grid_voltage	-1 V	Section1,Section2,Section3,ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	4.2 mA	Section1,Section2,Section3,ClassA



1968 General Electric Co

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

1968 GENERAL ELECTRIC CO
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Plate Dissipation All Plates	5 W	AllSections

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	EachSection
Grid Voltage	-1 V	EachSection
Plate Current	4.2 mA	EachSection

TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	ClassA
Plate current	4.2 mA	ClassA
Maximum plate voltage	330 V	—
PLATE VOLTAGE	330 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Negative-bias value	50 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Positive-bias value	0 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE DISSIPATION	2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
TOTAL PLATE DISSIPATION (ALL PLATES)	5 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Heater negative with respect to cathode	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Heater positive with respect to cathode	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	13600 ohm	ClassA
Transconductance	4200 uS	ClassA
Voltage (AC or DC) – published value 1	6 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 2	3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 3	10 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Current at 6.3 volts – published value 1	6.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Current at 6.3 volts – published value 2	0.45 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid to plate (Each Unit) – published value 1	1.5	EachUnit
Grid to plate (Each Unit) – published value 2	1.5	EachUnit
unit No.2, and heater – published value 1	2.4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
unit No.2, and heater – published value 2	2.6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
of unit No.3 and heater – published value 1	2.4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
of unit No.3 and heater – published value 2	2.6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
unit No.2, and heater – published value 1	0.21	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
unit No.2, and heater – published value 2	1.4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
unit No.1, and heater – published value 1	0.4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
unit No.1, and heater – published value 2	1.2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
of unit No.3 and heater – published value 1	0.36	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
of unit No.3 and heater – published value 2	1.2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage	125 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid Voltage	-1 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx)	13600 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Transconductance	4200	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current	4.2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage (Approx.) for plate $\mu_a = 20$ – published value 1	20 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate $\mu_a = 20$ – published value 2	-4 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 –Cathode of – published value 1	1	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 –Cathode of – published value 2	5	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Unit No.3	6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 2 –Grid of	2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Unit No.3	7	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 3– Plate of	3	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Unit No.3	8	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 4 –Cathode of	4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Unit No.2,	9	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

TUBE TINKER

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