

ELECTRONIC TUBE REFERENCE

4BS8

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Twin triode developed for VHF television tuner service, particularly cascode RF amplification where two high-frequency triode sections are used together for useful gain and isolation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	4.5 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0072 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	20 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
Published ratings and characteristics promoted where applicable.	

SECTION2 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0072 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Second physical triode section; electrically identical twin section.</i>	

Twin triode for television VHF tuner and cascode amplifier 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warmup Time	11 s	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4.5 V	—
Heater Current	600 mA	—
Transconductance	7200 μ S	RepresentativePublishedPoint
Plate Resistance	5000 ohm	RepresentativePublishedPoint
Plate Current	10 mA	ClassA; EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Plate Dissipation	2 W	—
Cascode Plate Supply Voltage	250 V	Cascode
Cascode Plate Current	16 mA	Cascode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cascode Transconductance	10000 μ S	Cascode



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	EachSection
Plate current	10 mA	EachSection
Application	VHF cascode amplifier	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7200 μ S	EachSection
Plate resistance	6800 Ω	EachSection
Amplification factor	43	EachSection



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Heater Current	560 mA–640 mA	Published nominal $\pm$ tolerance

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4.5 V	At heater current 0.6 A
Warm-Up Time	11 s	Average
Plate Supply Voltage	150 V	Inherited from explicitly referenced 6-volt parent type; heater variant
Cathode Bias Resistor	220 Ω	Inherited from explicitly referenced 6-volt parent type; heater variant
Plate Current	10 mA	Inherited from explicitly referenced 6-volt parent type; heater variant

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	36	Inherited from explicitly referenced 6-volt parent type; heater variant
Plate Resistance	5000 Ω	Inherited from explicitly referenced 6-volt parent type; heater variant
Transconductance	7200 μS	Inherited from explicitly referenced 6-volt parent type; heater variant

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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