



ELECTRONIC TUBE REFERENCE

5KD8

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Combined triode-pentode used as an oscillator and mixer or frequency converter in television or VHF communications receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	5.6 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0075 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Published source values promoted where applicable.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.55 W
<i>Published source values promoted where applicable.</i>	

Miniature type used as combined vhf oscillator and mixer tube in television receivers. Outlines section, Ms T 6B; requires miniature 9-contact socket. 9AE



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
Heater voltage	5.6 V	—
Heater current	450 mA	—

1961 TUNG SOL

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5.6 V	—
Heater current	450 mA	—



SOURCE OPERATING CONDITIONS

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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	125 V	TriodeSection
Grid voltage	-1 V	TriodeSection
Plate current	13.5 mA	TriodeSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7500 μ S	TriodeSection
Amplification factor	40	TriodeSection

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum grid 2 supply voltage	330 V	PentodeSection
Plate voltage	125 V	PentodeSection
Grid 2 voltage	110 V	PentodeSection
Grid 1 voltage	-1 V	PentodeSection
Plate current	9.5 mA	PentodeSection
Grid 2 current	3.5 mA	PentodeSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5000 μ S	PentodeSection
Plate resistance	0.2 M Ω m	PentodeSection
Zero-bias transconductance	5500 μ S	Eg1=0V; Eg2=70V; Eplate=100V



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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	5.6 volts	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time	11 seconds	Published value from supplied target entry
Plate Voltage \$	330 volts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
Grid-No	300	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts	Published value from supplied target entry
Plate Dissipation	3 watts	Published value from supplied target entry
For grid-No	0.55 volts	Published value from supplied target entry
For grid-No	300 volts	Published value from supplied target entry
Plate Voltage	125 volts	Published value from supplied target entry
Grid-No.1 Voltage	-1 volt	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	5000	Published value from supplied target entry
Transconductance	7600	Published value from supplied target entry
Plate Current	9.6 mA	Published value from supplied target entry
Grid-No	1	Published value from supplied target entry

TUBE TINKER

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