

ELECTRONIC TUBE REFERENCE

2ER5

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

High-mu miniature RF triode for grounded-grid VHF amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	8000 Ω
TRANSCONDUCTANCE	0.0105 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	2.2 W
Electrical characteristics of 6ER5 except heater.	

High-mu RF triode for grounded-grid VHF 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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Grid Capacitance	0.38 pF	WithoutShield
Plate To Grid Capacitance	0.36 pF	WithShield

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateVoltageWithoutCurrentMaximum	350 V	—
Plate Voltage	200 V	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	10 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	VHF tuner
Grid voltage	-1.2 V	VHF tuner

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10 mA	VHF tuner

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	80	—
Transconductance	10500 μ S	—


SOURCE DATA APPENDIX

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE TO GRID	0.36 MMF	Capacitances PLATE TO GRID 0.38 0.36 μ pf
PLATE TO ALL OTHER ELECTRODES EXCEPT GRID	4 MMF	Capacitances PLATE TO ALL OTHER ELECTRODES EXCEPT GRID 3.0 4.0 μ pf
GRID TO HEATER (MAX.)	0.28 MMF	Capacitances GRID TO HEATER (MAX.) 0.28 0.28 μ pf
CATHODE TO HEATER	2.8 pF	Capacitances CATHODE TO HEATER 2.g 2.8 uuf

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE	2.3 V	Maximum Ratings HEATER VOLTAGE 2.3 VOLTS
HEATER VOLTAGE	2.3 V	Typical Operating Conditions HEATER VOLTAGE 2.3 2.3 VOLTS
HEATER CURRENT	600 mA	Typical Operating Conditions HEATER CURRENT 0.60 0.60 AMP.
GRID VOLTAGE —	5.6 V	Typical Operating Conditions GRID VOLTAGE —1.2 —3.8 —5.6 VOLTS

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 voltage	2.3 V	—
Heater current	600 mA	—
Plate voltage	200 V	ClassA
Grid voltage	-1.2 V	ClassA
Plate current	10 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10500 μS	ClassA
Amplification factor	80	ClassA
Plate resistance	8000 ohm	ClassA
Grid voltage for transconductance 5000 μS	-3.8 V	—
Grid voltage for transconductance 1000 μS	-5.6 V	—