



ELECTRONIC TUBE REFERENCE

8446

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Reliable mobile-radio medium-mu triode and sharp-cutoff high-frequency pentode, electrically equivalent to 8445 with different basing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	13.5 V / 220 mA	PARALLEL HEATER	6.75 V / 440 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	43
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
Medium-mu triode section.	

SECTION2 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0062 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	0.5 W
<i>Sharp-cutoff pentode section.</i>	

Reliable mobile-radio medium-mu triode and sharp-cutoff high-frequency pentode; electrically equivalent to 8445 with different basing.

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	13.5 V	Nominal
Heater current	220 mA	Nominal
Plate voltage	330 V	Published operating table; OperatingPoint1
Plate voltage	330 V	Published operating table; OperatingPoint2
Plate voltage	100 V	Published operating table; OperatingPoint1
Plate voltage	170 V	Published operating table; OperatingPoint2
Screen voltage	200 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	12.5 mA	Published operating table; OperatingPoint1
Plate current	10 mA	Published operating table; OperatingPoint2
Transconductance	7000 μ S	Published operating table; OperatingPoint1
Transconductance	6200 μ S	Published operating table; OperatingPoint2

1961 TUNG SOL

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	13.5 V	Nominal
Heater current	220 mA	Nominal
Plate voltage	330 V	Published operating table; OperatingPoint1
Plate voltage	330 V	Published operating table; OperatingPoint2
Plate voltage	100 V	Published operating table; OperatingPoint1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	170 V	Published operating table; OperatingPoint2
Screen voltage	200 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	12.5 mA	Published operating table; OperatingPoint1
Plate current	10 mA	Published operating table; OperatingPoint2
Transconductance	7000 uS	Published operating table; OperatingPoint1
Transconductance	6200 uS	Published operating table; OperatingPoint2


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	Triode
Grid voltage	-1 V	Triode
Plate current	12.5 mA	Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 uS	Triode
Amplification factor	43	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode-grid to pentode-plate capacitance	0.02 pF	Coupling
Pentode-grid to triode-plate capacitance	0.16 pF	Coupling

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode-plate to triode-plate capacitance	0.07 pF	Coupling

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.75 V	—
Heater current	440 mA	—
Heater voltage limits minimum	6 V	—
Heater voltage limits maximum	7.5 V	—
Maximum heater-cathode voltage	200 V	—
Plate voltage	170 V	Pentode
Screen voltage	170 V	Pentode
Grid voltage	-2 V	Pentode
Plate current	10 mA	Pentode
Screen current	2.5 mA	Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6200 uS	Pentode
Plate resistance	400000 ohm	Pentode

TUBE TINKER

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