

ELECTRONIC TUBE REFERENCE

8448

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-reliability mobile-radio power pentode developed as a rugged replacement for the 12BY7A.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	13.5 V / 260 mA	PARALLEL HEATER	6.75 V / 380 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	93000 Ω
TRANSCONDUCTANCE	0.011 S
AMPLIFICATION FACTOR	28.5
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	190 V
MAXIMUM PLATE DISSIPATION	6.5 W
MAXIMUM SCREEN DISSIPATION	1.2 W
Power pentode; triode-connected amplification factor is retained.	

Reliable mobile-radio power pentode intended as a high-reliability replacement for the 12BY7A.



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	13.5 V	Nominal
Heater current	260 mA	Nominal
Plate voltage	330 V	Published operating table; OperatingPoint1
Plate voltage	250 V	Published operating table; OperatingPoint1
Screen voltage	180 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	26 mA	Published operating table; OperatingPoint1
Transconductance	11000 μ S	Published operating table; OperatingPoint1
Plate resistance	93000 ohm	Published operating table; OperatingPoint1



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage series	13.5 V	—
Heater current series	190 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage parallel	6.75 V	—
Heater current parallel	380 mA	—
Maximum plate voltage	330 V	—
Maximum screen voltage	190 V	—
Maximum plate dissipation	6.5 W	—
Maximum screen dissipation	1.2 W	—
Plate voltage	250 V	AverageCharacteristics
Screen voltage	180 V	AverageCharacteristics
Cathode bias resistor	100 ohm	AverageCharacteristics
Plate current	26 mA	AverageCharacteristics
Screen current	5.7 mA	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11000 uS	AverageCharacteristics
Plate resistance	93000 ohm	AverageCharacteristics
Triode amplification factor	28.5	TriodeConnection

TUBE TINKER

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