



ELECTRONIC TUBE REFERENCE

1U5WA

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Ruggedized diode-pentode for detector and voltage-amplifier service in portable or specialized battery equipment. The diode supplies signal detection while the comparatively strong pentode provides subsequent gain with low filament demand.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	1.25 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION 1 Diode	
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM CATHODE CURRENT	1 mA
NOMINAL OUTPUT CURRENT	1 mA
Published maximum ratings and characteristics promoted from approved source.	

SECTION2 Pentode	
PLATE RESISTANCE	650000 Ω
TRANSCONDUCTANCE	0.0012 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM PLATE DISSIPATION	0.17 W
MAXIMUM SCREEN DISSIPATION	0.035 W
MAXIMUM CATHODE CURRENT	2.5 mA
<i>Published maximum ratings and characteristics promoted from approved source.</i>	

Ruggedized filament-type diode-pentode for detection, AVC rectification, and audio-frequency amplification in portable receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	1.25 V	Nominal
HeaterCurrentNominal	50 mA	Nominal
Maximum Plate Voltage	90 V	—
Maximum Cathode Current	1 mA	—

1938 RAYTHEON

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	1.25 V	Nominal
HeaterCurrentNominal	50 mA	Nominal
Maximum Plate Voltage	90 V	—
Maximum Screen Voltage	90 V	—
Maximum Plate Dissipation	0.17 W	—
Maximum Cathode Current	2.5 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	550 μ S	Typical

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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.25 V	Nominal
Heater current	50 mA	Nominal

1961 TUNG SOL

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.25 V	Nominal
Heater current	50 mA	Nominal



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum impact acceleration	450 G	Ruggedized
Maximum vibrational acceleration	2.5 G	Ruggedized
Nominal filament voltage	1.25 V	—
Filament current	50 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average diode current	1 mA	DetectorService

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	67.5 V	Typical
Grid #2 voltage	67.5 V	Typical

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	650 uS	—

TUBE TINKER

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