



ELECTRONIC TUBE REFERENCE

1B4951

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated high-frequency RF amplifier pentode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 60 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 0 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0006 S
AMPLIFICATION FACTOR	600
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	67.5 V
At V_a 90 V, screen 67.5 V: gm 600 μ S, rp 1 M Ω , μ 600; at V_a 180 V: gm 650 μ S, rp 1.8 M Ω , μ 975.	

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 0 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.007 pF	Grid to plate, shielded
Input capacitance	5 pF	Input
Output capacitance	11 pF	Output capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	Class A operating point 1; screen 67.5 V
Plate voltage	180 V	Class A operating point 2; screen 67.5 V
Heater/filament current	60 mA	Filament current
Heater/filament voltage	2 V	Filament voltage

TUBE TINKER

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and their source documents.

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