

ELECTRONIC TUBE REFERENCE

951

Voltage Pentode - High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated high-frequency amplifier pentode, explicitly co-designated 1B4/951 in RCA documentation. Its filamentary cathode and RF amplifier role suit low-voltage high-frequency signal equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2 V / 60 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1800000 Ω
TRANSCONDUCTANCE	0.00065 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	67.5 V
Directly heated pentode high-frequency amplifier; the supplied sheet is explicitly co-designated 1B4/951.	

951 is a Pentode device. Directly heated pentode high-frequency amplifier; the supplied sheet is explicitly co-designated 1B4/951.

SOURCE OPERATING CONDITIONS

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 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA
Screen voltage	67.5 V	ClassA
Grid bias	-3 V	ClassA
Plate current	1.6 mA	PlateVoltage=90V
Screen current	0.7 mA	PlateVoltage=90V
Plate voltage	180 V	ClassA
Plate current	1.7 mA	PlateVoltage=180V
Screen current	0.6 mA	PlateVoltage=180V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1 MOhm	PlateVoltage=90V
Transconductance	600 uS	PlateVoltage=90V
Plate resistance	1.8 MOhm	PlateVoltage=180V
Transconductance	650 uS	PlateVoltage=180V
Grid bias for plate-current cutoff	-8 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	—0.007 pF	WithTubeShield; Maximum
Input capacitance	5 pF	—
Output capacitance	11 pF	—