

ELECTRONIC TUBE REFERENCE

7543

Voltage Pentode - Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Sharp-cutoff pentode optimized for low-hum, low-microphony resistance-coupled voltage amplification in compact audio equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	76K	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0052 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.65 W
Published electrical section from supplied RCA data sheet.	

Sharp-cutoff pentode for compact audio equipment; source states electrical identity with 6AU6A except for controlled hum characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Transconductance	5200 μ S	—
Amplification factor triode connected	36	TriodeConnection
Plate resistance	1 Mohm	—
Hum at plate typical	1.2 mV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-cathode voltage maximum heater negative	200 V	—
Heater-cathode voltage maximum heater positive DC	100 V	—
Typical plate voltage	250 V	—
Typical grid2 voltage	150 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-plate capacitance maximum	0.0035 pF	—
Input capacitance	5.5 pF	—
Output capacitance	5 pF	—
Triode-connected grid-to-plate capacitance	2.6 pF	TriodeConnection

CROSSREFERENCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent type	6AU6	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Low-hum voltage amplifier	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current nominal	300 mA	—
Voltage (AC or DC)	6.3 V	Published source row
Current o•	300 mA	Published source row
PLATE VOLTAGE	250 V	Published source row
PLATE VOLTAGE (value 2)	300 V	Published source row
GRID-No	2	Published source row
SUPPLY VOLTAGE	300 V	Published source row
GRID-No	2 A	Published source row
GRID-No	2	Published source row
For grid-No	2	Published source row
For grid-No	2	Published source row
PLATE DISSIPATION	3.2 W	Published source row
PLATE DISSIPATION (value 2)	3 W	Published source row

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
cathode resistor)ohms) =	1000	Published source row

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	100 V	Published source row
Plate Supply Voltage (value 2)	250 V	Published source row
Plate Supply Voltage (value 3)	250 V	Published source row
Grid-No	2 V	Published source row
Grid-No (value 2)	100 V	Published source row
Grid-No (value 3)	125 V	Published source row
Cathode Resistor	150 ohm	Published source row
Cathode Resistor (value 2)	100 ohm	Published source row
Cathode Resistor (value 3)	68 ohm	Published source row
Plate Resistance (Approx)	5 Mohm	Published source row
Plate Resistance (Approx) (value 2)	1.5 Mohm	Published source row
Plate Resistance (Approx) (value 3)	1 Mohm	Published source row
Transconductance	3900	Published source row
Transconductance (value 2)	4500	Published source row
Transconductance (value 3)	5200	Published source row
Plate Current	5 mA	Published source row
Plate Current (value 2)	7.6 mA	Published source row
Plate Current (value 3)	10.6 mA	Published source row
Grid-No	2 mA	Published source row
Grid-No (value 2)	21 mA	Published source row
Grid-No (value 3)	3 mA	Published source row
Plate Supply Voltage	250 V	Published source row
Cathode Resistor	330 ohm	Published source row
Amplification Factor	36	Published source row
Plate Resistance (Approx)	7500 ohm	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4800	Published source row
Plate Current	12.2 mA	Published source row



SOURCE DATA APPENDIX

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hum Output Voltage	1.2 mV	CathodeBypassed;RMS
Hum Output Voltage	0.9 mV	CathodeUnbypassed;RMS