



ELECTRONIC TUBE REFERENCE

6KY6

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Exceptionally high-transconductance sharp-cutoff pentode with 9 W plate dissipation for demanding Class-A wideband amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 520 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.03 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Representative electrical section from supplied RCA data sheet.</i>	

Sharp-cutoff pentode for high-transconductance Class A amplifier service. Published data include max plate 330 V; gm about 30,000 μ S.

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	520 mA	—
Plate Voltage Eb	330 V	Published source row
Grid-No	2	Published source row
Supply Voltage E c2	330 V	Published source row
Grid-No	2	Published source row
Grid-No (value 2)	2	Published source row
Heater Voltage (AC or DC) Eh	5.7 V	Published source row
Heater Voltage (AC or DC) Eh (value 2)	6.9 V	Published source row
Grid-No	2	Published source row
Plate Dissipation. Pb	9 W	Published source row

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (AC or DC) Eh	6.3 V	Published source row
Heater Current. Ih	520 mA	Published source row
Plate Resistance (Approx.) r	40	Published source row
Transconductance gm	30000 μS	Published source row
DC Plate Current Ib	30 mA	Published source row
DC Grid-No	2 mA	Published source row
DC Grid-No (value 2)	5.2 mA	Published source row
Cutoff DC Grid-No. 1 Voltage. Ecl(co)	-4.5 V	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage Ebb	200 V	Published source row
Grid-No	2 V	Published source row
Grid-No (value 2)	135 V	Published source row
Grid-No. 1 Supply Voltage Ecl	0 V	Published source row
Cathode Resistor ~k	47	Published source row
PLATE (Ib1	0	Published source row
PLATE (Ib1 (value 2)	2	Published source row
PLATE (Ip) OR GRID-No	2	Published source row

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No	1 pF	Published source row
Grid No (value 2)	0.16 pF	Published source row

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