



ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

4KT6

1 SECTION

CONSTRUCTION

PENTODE

Voltage Pentode - Remote Cutoff (single) electronic tube

Semi-remote-cutoff pentode designed for AGC-controlled television picture-IF or related television amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9PM	BASE PINS	9
NOMINAL HEATER	4.5 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.7 W
<i>Gain-controlled television IF pentode; parent characteristics carried forward.</i>	

Semiremote-cutoff frame-grid pentode used as an IF-amplifier tube in television receivers around 40 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	IFAmplifier
Grid 2 voltage	125 V	IFAmplifier
Plate current	12 mA	IFAmplifier
Grid 2 current	3.5 mA	IFAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	IFAmplifier
Heater warm-up time	11 s	ControlledWarmUp



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For fixed-bias operation 0.5	0.5 M Ω	Published in approved 6KT6 target datasheet entry; Section1
For cathode-bias operation 1	1 M Ω	Published in approved 6KT6 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
quency in the order of	40 MHz	Published in approved 6KT6 target datasheet entry; Section1
Heater Warm-up Time (Average) 11	11 seconds	Published in approved 6KT6 target datasheet entry; Section1
Plate Voltage	330 V	Published in approved 6KT6 target datasheet entry; Section1
Grid-No.3 (Suppressor-Grid) Voltage	0 V	Published in approved 6KT6 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Supply Voltage	330 V	Published in approved 6KT6 target datasheet entry; Section1
Grid-No.1 (Control-Grid) Voltage	0 V	Published in approved 6KT6 target datasheet entry; Section1
Plate Dissipation	3.1 W	Published in approved 6KT6 target datasheet entry; Section1
For grid-No.2 voltages up to	165 V	Published in approved 6KT6 target datasheet entry; Section1
For grid-No.2 voltages up to 165 volts	0.6 W	Published in approved 6KT6 target datasheet entry; Section1
For grid-No.2 voltages between 165 and	330 V	Published in approved 6KT6 target datasheet entry; Section1
Plate Voltage 330	330 V	Published in approved 6KT6 target datasheet entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Internal Shield	9.5 pF	Published in approved 6KT6 target datasheet entry; Section1
Grid to Plate 3	3 pF	Published in approved 6KT6 target datasheet entry; Section1
Pentode Unit, and Internal Shield 3.2	3.2 pF	Published in approved 6KT6 target datasheet entry; Section1
Peniode Unit, and Internal Shield 1.6	2.4 pF	Published in approved 6KT6 target datasheet entry; Section1
Grid No.3, and Internal Shield 7.5	7.5 pF	Published in approved 6KT6 target datasheet entry; Section1
Grid No.3, and Internal Shield 2.2	2.8 pF	Published in approved 6KT6 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage 125	170 V	Published in approved 6KT6 target datasheet entry; Section1
Grid-No.3 Voltage 0	0 V	Published in approved 6KT6 target datasheet entry; Section1
Grid-No.2 Supply Voltage 125	170 V	Published in approved 6KT6 target datasheet entry; Section1
Cathode-Bias Resistor 56	56 Ω	Published in approved 6KT6 target datasheet entry; Section1
Plate Current	17 mA	Published in approved 6KT6 target datasheet entry; Section1
of 10 μ rahos –	22 V	Published in approved 6KT6 target datasheet entry; Section1