

ELECTRONIC TUBE REFERENCE

4JH6

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

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

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CM	BASE PINS	7
NOMINAL HEATER	4.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7CM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN7 – IS	A	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	260000 Ω
TRANSCONDUCTANCE	0.008 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM SCREEN DISSIPATION	0.55 W
<i>Promoted from published maximum-ratings/characteristics tables; additional source values are retained in TUBE_SECTION_PARAMETER.</i>	

Semiremote-cutoff miniature pentode used in gain-controlled television picture-IF amplifier stages.

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
Peak value	200 V	Other;PublishedValue1
Peak value	200 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Plate Voltage	300 V	MaximumRating
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0 V	MaximumRating
Grid-No.2 (Screen-Grid) Supply Voltage	300 V	MaximumRating
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 V	MaximumRating
For grid-No.2 voltages up to 150 volts	0.55 V	MaximumRating
For fixed-bias operation	0.25 megohm	MaximumCircuitValue
For cathode-bias operation	1 megohm	MaximumCircuitValue
PlateVoltage (Each Plate)	330 V	MaximumRating
Negative value	165 V	MaximumRating
Positive value	165 V	MaximumRating
Grid-No.3 (Accelerating-Grid) Voltage	330 V	MaximumRating
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 V	MaximumRating
Cathode Current	33 mA	MaximumRating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.025 pF	Capacitance;PublishedValue1
Grid No.1 to Plate	0.015 pF	Capacitance;PublishedValue2
Grid No.3, and Internal Shield	7 pF	Capacitance
and Internal Shield	2 pF	Capacitance
Grid No.1 to All Other Electrodes, Except Both Plates	7.5 pF	Capacitance
Grid No.1 to Deflecting Electrode No.1	0.04 pF	Capacitance
Grid No.1 to Deflecting Electrode No.2	0.07 pF	Capacitance
Plate No.1 to All Other Electrodes	5 pF	Capacitance
Plate No.2 to All Other Electrodes	5 pF	Capacitance
Plate No.1 to Plate No.2	0.4 pF	Capacitance
Deflecting Electrode No.1 to All Other Electrodes	4.8 pF	Capacitance
Deflecting Electrode No.2 to All Other Electrodes	4.8 pF	Capacitance
Deflecting Electrode No. 1 to Deflecting Electrode No.2	0.38 pF	Capacitance

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	125 V	Characteristic
Grid-No.2 Supply Voltage	125 V	Characteristic
Plate Resistance (Approx.)	0.26 megohm	Characteristic
Transconductance Range for grid-No.1 voltage of	-4.5 V	Characteristic
Plate Current	14 mA	Characteristic
Grid-No.2 Current	3.6 mA	Characteristic
Grid-No.1 Voltage (Approx.) for transconductance of 50 /imhos	19 V	Characteristic



TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker