

ELECTRONIC TUBE REFERENCE

3JC6A

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Sharp-cutoff pentode designed for television IF, picture-IF, video, or VHF tuner amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9PM	BASE PINS	9
NOMINAL HEATER	3.5 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9PM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	K – Cathode	CONNECTED
PIN2	–	G1 – Control Grid	CONNECTED
PIN3	–	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN7	–	P – Plate (Anode)	CONNECTED
PIN8	–	G2 – Screen Grid	CONNECTED
PIN9	–	G3 – Suppressor Grid	CONNECTED
PIN9	–	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	180000 Ω
TRANSCONDUCTANCE	0.016 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.1 W
MAXIMUM SCREEN DISSIPATION	0.7 W
<i>6JC6A-equivalent column used for the A-version ratings and characteristics.</i>	

Sharp-cutoff frame-grid miniature pentode used in television IF-amplifier stages around 40 MHz.

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
Peak value	200 V	Other;PublishedValue3
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue3
Plate Voltage	330 V	MaximumRating;PublishedValue1
Plate Voltage	330 V	MaximumRating;PublishedValue2
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0 V	MaximumRating;PublishedValue1
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0 V	MaximumRating;PublishedValue2
Grid-No.2 (Screen-Grid) Supply Voltage	330 V	MaximumRating;PublishedValue1
Grid-No.2 (Screen-Grid) Supply Voltage	330 V	MaximumRating;PublishedValue2
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 V	MaximumRating;PublishedValue1
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 V	MaximumRating;PublishedValue2
Plate Dissipation	2.5 W	MaximumRating;PublishedValue1
Plate Dissipation	3.1 W	MaximumRating;PublishedValue2
For grid-No.2 voltages up to 165 volts	0.6 V	MaximumRating;PublishedValue1
For grid-No.2 voltages up to 165 volts	0.7 V	MaximumRating;PublishedValue2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For fixed-bias operation	0.25 megohm	MaximumCircuitValue;PublishedValue1
For fixed-bias operation	0.25 megohm	MaximumCircuitValue;PublishedValue2
For cathode-bias operation	1 megohm	MaximumCircuitValue;PublishedValue1
For cathode-bias operation	1 megohm	MaximumCircuitValue;PublishedValue2
PLATE VOLTS	48 V	MaximumCircuitValue

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.019 pF	Capacitance

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	125 V	Characteristic;PublishedValue1
Plate Supply Voltage	125 V	Characteristic;PublishedValue2
Grid-No.2 Supply Voltage	125 V	Characteristic;PublishedValue1
Grid-No.2 Supply Voltage	125 V	Characteristic;PublishedValue2
Cathode-Bias Resistor	56 ohm	Characteristic;PublishedValue1
Cathode-Bias Resistor	56 ohm	Characteristic;PublishedValue2
Plate Resistance (Approx.)	0.18 megohm	Characteristic;PublishedValue1
Plate Resistance (Approx.)	0.18 megohm	Characteristic;PublishedValue2
Plate Current	13 mA	Characteristic;PublishedValue1
Plate Current	14 mA	Characteristic;PublishedValue2
Grid-No.2 Current	3.2 mA	Characteristic;PublishedValue1
Grid-No.2 Current	3.4 mA	Characteristic;PublishedValue2
100	-3 V	Characteristic;PublishedValue1
100	-3 V	Characteristic;PublishedValue2

TUBE TINKER

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