

ELECTRONIC TUBE REFERENCE

6JC8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Medium-mu triode and sharp-cutoff pentode miniature combination with controlled heater warm-up.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9PA	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9PA - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	B	G3 – Suppressor Grid	CONNECTED
PIN1	–	IS – Internal Screen	CONNECTED
PIN1	–	K – Cathode	CONNECTED
PIN2	B	G1 – Control Grid	CONNECTED
PIN3	B	G2 – Screen Grid	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN7	B	G3 – Suppressor Grid	CONNECTED
PIN7	–	IS – Internal Screen	CONNECTED
PIN7	–	K – Cathode	CONNECTED
PIN8	A	G1 – Control Grid	CONNECTED
PIN9	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	300000 Ω
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.3 W
MAXIMUM SCREEN DISSIPATION	0.45 W
Sharp-cutoff pentode mixer section.	

SECTION2 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.7 W
Medium-mu oscillator triode section.	

6JC8 is a medium-mu triode— sharp-cutoff pentode 9-pin miniature type with heater having controlled warm-up time general data ,r" electrical: heater characteristics and ratings ldesiun-maximum valued.

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 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC)	6.3 V	Published table value column 1
Voltage (AC or DC)	6.3 V	Published table value column 2
Voltage (AC or DC)	0.6 V	Published table value column 3
Current	450 mA	Published table value column 1
Current	30 mA	Published table value column 2
Current	450 mA	Published table value column 3
Warm-up time (Average)	11 s	Published table value
respect to cathode	200 V	Published table value
Grid to plate	1.3 pF	Published table value
Grid to cathode and heater	2.8 pF	Published table value column 1
Grid to cathode and heater	3.2 pF	Published table value column 2
Grid No.1 to plate	0.038 pF	Published table value column 1
Grid No.1 to plate	0.018 pF	Published table value column 2
grid No	2 pF	Published table value column 1
grid No	0.9 pF	Published table value column 2
grid No	1.6 pF	Published table value column 3
triode plate	0 pF	Published table value column 1
triode plate	0.036 pF	Published table value column 2
triode plate	0.075 pF	Published table value column 1
triode plate	0.012 pF	Published table value column 2
Plate Voltage	125 V	Published table value column 1
Plate Voltage	100 V	Published table value column 2
Plate Voltage	125 V	Published table value column 3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	2 V	Published table value column 1
Grid-No	70 V	Published table value column 2
Grid-No	125 V	Published table value column 3
Grid-No.1 Voltage	-1 V	Published table value column 1
Grid-No.1 Voltage	0 V	Published table value column 2
Grid-No.1 Voltage	-1 V	Published table value column 3
Plate Current	12 mA	Published table value column 1
Plate Current	9 mA	Published table value column 2
Grid-No	2 mA	Published table value column 1
Grid-No	2.2 mA	Published table value column 2
for plate μ a =	20 V	Published table value column 1
for plate μ a =	-7 V	Published table value column 2
for plate μ a =	6.5 V	Published table value column 3
PLATE VOLTAGE	275 V	Published table value column 1
PLATE VOLTAGE	275 V	Published table value column 2
SUPPLY VOLTAGE	275 V	Published table value
PLATE DISSIPATION	1.7 W	Published table value column 1
PLATE DISSIPATION	2.3 W	Published table value column 2
For cathode-bias operation	0.5 M Ω	Published table value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance (Approx.)	6000 Ω	Published table value column 1
Plate Resistance (Approx.)	300000 Ω	Published table value column 2
Transconductance	6500 μ S	Published table value column 1
Transconductance	5700 μ S	Published table value column 2
Transconductance	5500 μ S	Published table value column 3



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	275 V	Section2
Maximum Screen Voltage	275 V	Section2
Maximum Plate Dissipation	2.3 W	Section2
Maximum Screen Dissipation	0.45 W	Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	300000 ohm	Section2
Transconductance	5500 uS	Section2

1975 RCA RC30

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
s ip^t/_-l/ST	6 V	Other;PublishedValue1
s ip^t/_-l/ST	9 V	Other;PublishedValue2
"©	6.3 A	Other;PublishedValue1
"©	450 mA	Other;PublishedValue2
is	11 s	Other;PublishedValue1
is	200 s	Other;PublishedValue2
Plate	275 V	MaximumRating;PublishedValue1
Plate	275 V	MaximumRating;PublishedValue2
Grid-No.2 (Screen-Grid) Supply Voltage	275 V	MaximumRating
0	0 V	MaximumRating
Plate Dissipation	1.7 W	MaximumRating;PublishedValue1
Plate Dissipation	2.3 W	MaximumRating;PublishedValue2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For grid-No.2 voltages up to 137.5 volts	0.45 V	MaximumRating
For fixed-bias operation	0.1 megohm	MaximumCircuitValue
For cathode-bias operation	0.5 megohm	MaximumCircuitValue
Maximum Plate Voltage	275 V	Section1
Maximum Plate Dissipation	1.7 W	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	Characteristic;PublishedValue1
Plate Voltage	100 V	Characteristic;PublishedValue2
Plate Voltage	125 V	Characteristic;PublishedValue3
GrH-No.2 Voltage	70 V	Characteristic;PublishedValue1
GrH-No.2 Voltage	125 V	Characteristic;PublishedValue2
– 0	-1 V	Characteristic
Plate Resistance (Approx.)	6000 ohm	Characteristic;PublishedValue1
Plate Resistance (Approx.)	300000 ohm	Characteristic;PublishedValue2
Grid-No.2 Current	2.2 mA	Characteristic
20 uA	-7 uA	Characteristic;PublishedValue1
20 uA	6.5 uA	Characteristic;PublishedValue2
Plate Resistance	6000 ohm	Section1
Transconductance	6500 uS	Section1
Amplification Factor	40	Section1

TUBE TINKER

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