

ELECTRONIC TUBE REFERENCE

6CZ5

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Miniature beam-power tube usable as a television vertical-deflection amplifier and as an audio-frequency output tube in television and radio receivers.

GENERAL CHARACTERISTICS

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

9HN - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	73000 Ω
TRANSCONDUCTANCE	0.0048 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	315 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Published promoted values applied where applicable; additional ratings and operating data retained as parameters.</i>	

Miniature beam-power tube used as a vertical-deflection amplifier in television receivers and as an audio-frequency output tube in television and radio receivers.



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Plate Voltage	2200 V	Vertical deflection; absolute maximum
Plate Voltage	250 V	Class A single tube
Power Output	5.4 W	Class A single tube
Power Output	21.5 W	Class AB push-pull

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	0.4 pF	Maximum



SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Published operating/characteristic table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	46 mA	Published operating/characteristic table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Current	4.6 mA	Published operating/characteristic table
Transconductance	4800 μ S	Published operating/characteristic table
Plate Resistance	73000 ohm	Published operating/characteristic table



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	315 V	—
Maximum peak positive pulse plate voltage	2200 V	—
Maximum peak cathode current	155 mA	—
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Control-grid voltage	-14 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	46 mA	ClassA
Screen current	4.6 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1-to-plate capacitance maximum	0.4 pF	—
Input capacitance	9 pF	—
Output capacitance	6 pF	—

SOURCE OPERATING CONDITIONS

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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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current – published value 1	0 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Current – published value 2	45 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
Current – published value 3	6 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
No.2, and heater	9	Published datasheet value; multiple values represent separate source-table limits or conditions.
No.2, and heater	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage – published value 1	75 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Voltage – published value 2	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Voltage – published value 1	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Voltage – published value 2	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1 Voltage – published value 1	0 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 Voltage – published value 2	-15 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Resistance (Approx)	73000 ohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Transconductance	4800	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current – published value 1	130 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current – published value 2	46 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Current – published value 1	16 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Current – published value 2	4.6 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
plate μ a = 100 – published value 1	100 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
plate μ a = 100 – published value 2	-40 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No.2 – published value 1	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1 -Grid No.2 – published value 2	7	Published datasheet value; multiple values represent separate source-table limits or conditions.
P i n 2 - No Connec	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 3 -Grid No.1	3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Heater	4	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 5 -Heater – published value 1	5	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 5 -Heater – published value 2	9	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 6 -Grid No.1	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
'PLATE (Ib) OR GRID-Ns 2 ~C2) MILLIAMPERES	2 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
PLATE VOLTS=250	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to plate	0.4 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
DC PLATE VOLTAGE	350 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
PEAK POSITIVE-PULSE PLATE VOLTAGE	2200 V	Pulse
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	315 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
(CONTROL-GRID) VOLTAGE	275 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Peak	155 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID-No.2 INPUT	2.2 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
PLATE DISSIPATION	10 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
For fixed-bias operation	0.5 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
For cathode-bias operation	1 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.



SOURCE OPERATING CONDITIONS

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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 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1-to-plate capacitance	0.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen-grid voltage	250 V	ClassA
Grid voltage	-15 V	ClassA
Plate current	46 mA	ClassA
Screen-grid current	4.6 mA	ClassA
Peak positive-pulse plate voltage	2200 V	VerticalDeflection
Average cathode current	45 mA	VerticalDeflection



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and their source documents.

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