

ELECTRONIC TUBE REFERENCE

5CZ5

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power tube designed for high-efficiency television vertical-deflection output and audio-output stages, combining scanning capability with useful audio power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9HN	BASE PINS	8
NOMINAL HEATER	4.7 V / 600 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	2.2 W
MAXIMUM CATHODE CURRENT	45 mA
<i>Beam-power frame-output section; 6CZ5 electrical counterpart.</i>	

Beam power tube for high-efficiency television vertical deflection and audio output stages. Electrical ratings, characteristics, and capacitances were interpreted from the supplied RCA manual excerpt where reproduced; reference-only entries were not supplemented from outside sources.



SOURCE OPERATING CONDITIONS

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

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4.7 V	—
Heater current	600 mA	—



1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4.7 V	Published rating
Heater/filament current	600 mA	Published rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.4 pF	Maximum
Input capacitance	9 pF	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	110-degree television vertical-deflection amplifier	VerticalDeflection



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak plate voltage	2200 V	FrameOutput
Maximum plate voltage	350 V	—
Maximum screen voltage	315 V	—
Maximum plate dissipation	10 W	—
Maximum screen dissipation	2.2 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current	45 mA	—
Plate voltage	250 V	FrameOutput
Screen voltage	250 V	FrameOutput
Grid voltage	-14 V	FrameOutput
Plate current	46 mA	FrameOutput
Screen current	4.6 mA	FrameOutput
Heater/filament voltage	4.7 V	DerivativeSheet
Heater/filament current	600 mA	DerivativeSheet
Heater warm-up time	11 s	ControlledWarmup

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	73000 ohm	FrameOutput
Transconductance	4800 uS	FrameOutput

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.04 pF	—
Input capacitance	9 pF	—
Output capacitance	6 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1975 RCA RC30

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

[SOURCE PDF](#)

1975 RCA RC30

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Grid voltage	-15 V	ClassA

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	2200 V	TVVerticalDeflection
Average cathode current	45 mA	TVVerticalDeflection

TUBE TINKER

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

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