



ELECTRONIC TUBE REFERENCE

25CU6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power tube designed for horizontal-deflection amplifier service in color and black-and-white television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	7
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6AM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	–	–	NC · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

TERMINAL	SECTION	ELEMENT	STATUS
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power		
PLATE RESISTANCE		14500 Ω
TRANSCONDUCTANCE		0.0059 S
AMPLIFICATION FACTOR		4.5
MAXIMUM PLATE VOLTAGE		600 V
MAXIMUM SCREEN VOLTAGE		200 V
MAXIMUM PLATE DISSIPATION		11 W
MAXIMUM SCREEN DISSIPATION		2.5 W
MAXIMUM CATHODE CURRENT		110 mA
<i>DC plate-supply voltage used for promoted DC plate limit; pulse ratings retained as parameters.</i>		

Beam power tube for horizontal-deflection amplifier service in color and black-and-white television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	15 pF	—
Output capacitance	7 pF	—
Grid-to-plate capacitance	0.55 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	HorizontalDeflection
Screen-grid voltage	150 V	HorizontalDeflection
Grid voltage	-22.5 V	HorizontalDeflection
Plate current	55 mA	HorizontalDeflection
Screen-grid current	2.1 mA	HorizontalDeflection
Plate voltage	60 V	HorizontalDeflection;PeakDrive
Screen-grid voltage	150 V	HorizontalDeflection;PeakDrive
Grid voltage	0 V	HorizontalDeflection;PeakDrive
Plate current	225 mA	HorizontalDeflection;PeakDrive
Screen-grid current	25 mA	HorizontalDeflection;PeakDrive
Maximum positive pulse plate voltage	6000 V	HorizontalDeflection;Pulse

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	25 V	Nominal
Heater current	300 mA	Nominal
Maximum peak positive pulse plate voltage	6000 V	HorizontalDeflection
Maximum peak negative pulse plate voltage	1250 V	HorizontalDeflection
Maximum peak cathode current	400 mA	HorizontalDeflection
Plate voltage	250 V	Typical operating conditions
Screen voltage	150 V	Typical operating conditions
Grid 1 voltage	-22.5 V	Typical operating conditions

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	55 mA	Typical operating conditions
Grid 2 current	2.1 mA	Typical operating conditions
Transconductance	5500 μ S	Typical operating conditions
Plate resistance	20000 ohm	Typical operating conditions
Triode amplification factor	4.3	Typical operating conditions

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to plate	0.55 pF	Direct interelectrode capacitance
Input capacitance	15 pF	Direct interelectrode capacitance
Output capacitance	7 pF	Direct interelectrode capacitance



1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK
Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	25 V	—
Heater Current	300 mA	—
Grid-Plate Capacitance	0.6 pF	—
Input Capacitance	15 pF	—
Output Capacitance	7 pF	—
Cutoff Plate Voltage	250 V	—
Cutoff Screen Voltage	150 V	—
Cutoff Grid Voltage	-43 V	—
Triode Amplification Factor	4.3 ratio	ScreenTiedToPlate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Supply Voltage	600 V	HorizontalDeflection
Maximum Peak Positive Plate Voltage	6000 V	Pulse
Maximum Peak Negative Plate Voltage	-1250 V	Pulse
Maximum Plate Dissipation	11 W	—
Maximum Screen Voltage	200 V	—
Maximum Screen Dissipation	2.5 W	—
Maximum Average Cathode Current	110 mA	—
Maximum Peak Cathode Current	400 mA	—

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4
Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	TypicalOperation
Heater current	300 mA	TypicalOperation
Maximum DC plate supply voltage	550 V	WholeTube
Maximum positive pulse plate voltage	6000 V	HorizontalDeflection
Maximum negative pulse plate voltage	1250 V	HorizontalDeflection
Maximum average cathode current	110 mA	WholeTube
Maximum peak cathode current	400 mA	WholeTube
Plate current	55 mA	TypicalOperation
Screen current	2.1 mA	TypicalOperation
Transconductance	5500 μS	TypicalOperation
Plate resistance	20000 ohm	TypicalOperation

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1-to-plate capacitance	0.55 pF	WholeTube
Output capacitance	7 pF	WholeTube



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1968 General Electric Co

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	25 V	—
HeaterCurrentNominal	300 mA	—
Peak Positive Pulse Plate Voltage	6000 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1250 V	HorizontalDeflection
Peak Cathode Current	400 mA	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	14500 Ohm	—
Transconductance	5900 uS	—



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	700 V	—
Maximum Screen Voltage	175 V	—
Plate Dissipation	15 W	—
Screen Input	3 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	4000 Ω	—
Transconductance	10000 μS	—

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-Cathode Voltage:	11 s	Other
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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No	2 pF	Capacitance;PublishedValue1
Plate to Cathode, Heater, Grid No	3 pF	Capacitance;PublishedValue2
Plate to Cathode, Heater, Grid No	7 pF	Capacitance;PublishedValue3

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	60 V	Characteristic;PublishedValue1
Plate Voltage	150 V	Characteristic;PublishedValue2
Plate Voltage	250 V	Characteristic;PublishedValue3
Grid-No	2 V	Characteristic;PublishedValue1
Grid-No	150 V	Characteristic;PublishedValue2
Grid-No	150 V	Characteristic;PublishedValue3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	150 V	Characteristic;PublishedValue4
Grid-No	1 V	Characteristic;PublishedValue1
Grid-No	0 V	Characteristic;PublishedValue2
Grid-No	22.5 V	Characteristic;PublishedValue3
Grid-No	-22.5 V	Characteristic;PublishedValue4
Plate Resistance (Approx.) –	14500 ohm	Characteristic
Plate Current	260 mA	Characteristic;PublishedValue1
Plate Current	57 mA	Characteristic;PublishedValue2
Grid-No	2 mA	Characteristic;PublishedValue1
Grid-No	26 mA	Characteristic;PublishedValue2
Grid-No	2.1 mA	Characteristic;PublishedValue3