

ELECTRONIC TUBE REFERENCE

22JU6

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 television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9QL	BASE PINS	9
NOMINAL HEATER	22 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9QL - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	G2 – Screen Grid	CONNECTED
PIN2	–	G1 – Control Grid	CONNECTED
PIN3	–	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	G1 – Control Grid	CONNECTED
PIN7	–	G2 – Screen Grid	CONNECTED
PIN8	–	G3 – Suppressor Grid	CONNECTED
PIN9	–	–	IC
CAP1	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.018 S
MAXIMUM PLATE VOLTAGE	770 V
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	17 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	275 mA
<i>Supplied 22JU6 sheet identifies this as a heater-voltage variant of 6JU6. Promoted beam-power electrical fields were populated from the exact parent-type technical data; heater values remain specific to the supplied 22JU6 sheet.</i>	

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

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 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	22 V	Nominal heater rating from supplied sheet
Heater current	450 mA	Nominal heater rating from supplied sheet
Plate resistance	7000 ohm	ExactParentElectricalData 6JU6
Transconductance	18000 uS	ExactParentElectricalData 6JU6

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	770 V	ExactParentElectricalData 6JU6
Maximum screen-grid voltage	220 V	ExactParentElectricalData 6JU6
Maximum plate dissipation	17 W	ExactParentElectricalData 6JU6
Maximum screen-grid dissipation	3.5 W	ExactParentElectricalData 6JU6
Maximum average cathode current	275 mA	ExactParentElectricalData 6JU6
Peak positive-pulse plate voltage	6500 V	ExactParentElectricalData 6JU6
Peak cathode current	950 mA	ExactParentElectricalData 6JU6

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 Warm-up Time	11 s	Other
Peak value d	200 V	Other;PublishedValue1
Peak value d	200 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
DC Plate Supply Voltage	770 V	MaximumRating
Peak Positive-Pulse Plate Voltage*	6500 V	MaximumRating
Peak Negative-Pulse Plate Voltage	1500 V	MaximumRating
DC Grid-No	2 V	MaximumRating;PublishedValue1
DC Grid-No	220 V	MaximumRating;PublishedValue2
DC Grid-No.1 Voltage, Negative-bias value	65 V	MaximumRating
Peak Negative Pulse Grid-No.1 Voltage	330 V	MaximumRating
Peak Cathode Current	950 mA	MaximumRating
Average Cathode Current	275 mA	MaximumRating
Grid-No	2 W	MaximumRating;PublishedValue1
Grid-No	3 W	MaximumRating;PublishedValue2
Grid-No	-6 W	MaximumRating;PublishedValue3
For grid-resistor-bias operation	0.47 megohm	MaximumCircuitValue
For plate-pulsed operation	10 megohm	MaximumCircuitValue
Maximum Plate Voltage	770 V	Section1;Promoted
Maximum Screen Voltage	125 V	Section1;Promoted
Maximum Plate Dissipation	17 W	Section1;Promoted
Maximum Screen Dissipation	-6 W	Section1;Promoted
Maximum Cathode Current	275 mA	Section1;Promoted

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	1.2 pF	Capacitance
Grid No.1 to Cathode, Heater, Grid No	2 pF	Capacitance;PublishedValue1
Grid No.1 to Cathode, Heater, Grid No	3 pF	Capacitance;PublishedValue2
Grid No.1 to Cathode, Heater, Grid No	22 pF	Capacitance;PublishedValue3
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	9 pF	Capacitance;PublishedValue3

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive-Pulse Plate Voltage*	6500 V	Characteristic
Grid-No	2 V	Characteristic;PublishedValue1
Grid-No	125 V	Characteristic;PublishedValue2
Grid-No	125 V	Characteristic;PublishedValue3
Grid-No	125 V	Characteristic;PublishedValue4
Grid-No.1 (Control-Grid) Voltage	-20 V	Characteristic;PublishedValue1
Grid-No.1 (Control-Grid) Voltage	0 V	Characteristic;PublishedValue2
Grid-No.1 (Control-Grid) Voltage	-20 V	Characteristic;PublishedValue3
Plate Hesistance (Approx.) –	18000 ohm	Characteristic
– –	470 mA	Characteristic;PublishedValue1
– –	45 mA	Characteristic;PublishedValue2
Grid-No	2 mA	Characteristic;PublishedValue1
Grid-No	32 mA	Characteristic;PublishedValue2
Grid-No	1 mA	Characteristic;PublishedValue3
Grid-No	-5 mA	Characteristic;PublishedValue4

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 Voltage for plate current	1 mA	Characteristic;PublishedValue1
Grid-No.1 Voltage for plate current	-75 mA	Characteristic;PublishedValue2
Grid-No.1 Voltage for plate current	-32 mA	Characteristic;PublishedValue3

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker