

ELECTRONIC TUBE REFERENCE

22JG6A

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power television horizontal-deflection tube with severe pulse-voltage ratings and operating provisions specifically identified for horizontal-deflection amplifier service.

GENERAL CHARACTERISTICS

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

9QU - 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	–	G3 – Suppressor Grid	CONNECTED
PIN7	–	G2 – Screen Grid	CONNECTED
PIN8	–	–	IC
PIN9	–	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	4.1
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
<p><i>Supplied 22JG6A sheet identifies this as a heater-voltage variant of 6JG6A. Promoted beam-power electrical fields were populated from the exact parent-type technical data; heater values remain specific to the supplied 22JG6A sheet.</i></p>	

22JG6A is a beam-power tube for television deflection or power-amplifier service. The supplied RCA manual excerpt was reviewed for heater data, physical sections, maximum ratings, electrical characteristics, capacitances, and stated operating conditions.



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	12000 ohm	ExactParentElectricalData 6JG6A
Transconductance	10000 uS	ExactParentElectricalData 6JG6A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	770 V	ExactParentElectricalData 6JG6A
Maximum screen-grid voltage	220 V	ExactParentElectricalData 6JG6A
Maximum plate dissipation	17 W	ExactParentElectricalData 6JG6A
Maximum screen-grid dissipation	3.5 W	ExactParentElectricalData 6JG6A
Maximum average cathode current	275 mA	ExactParentElectricalData 6JG6A
Peak positive-pulse plate voltage	6500 V	ExactParentElectricalData 6JG6A
Peak cathode current	950 mA	ExactParentElectricalData 6JG6A



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 6.3 16.8	22 V	Heater Voltage (ac/dc) 6.3 16.8 22 volts
Heater Current 1.6 0.6	450 mA	Heater Current 1.6 0.6 0.45 amperes
Heater Warm-up Time (Average) 11	11 s	Heater Warm-up Time (Average) 11 11 seconds
Plate Voltage 125 60	130 V	Plate Voltage 125 60 130 volts
Grid-No.2 (Screen-Grid) Voltage 125	125 V	Grid-No.2 (Screen-Grid) Voltage 125 125 volts
Grid-No.1 (Control-Grid) Voltage -20 0 -	20 V	Grid-No.1 (Control-Grid) Voltage -20 0 - 20 volts
Plate Resistance (Approx.)	12000 ohm	Plate Resistance (Approx.) 12000 ohms
Transconductance	10000 uS	Transconductance 10000 /imhos
Plate Current 525<	80 mA	Plate Current 525< 80 mA
Grid-No.2 Current 32	2.5 mA	Grid-No.2 Current 32- 2.5 mA
for plate current of	1 mA	for plate current of 1 mA . . .
Heater voltage	22 V	Rated heater condition
Heater current	450 mA	Rated heater condition
Plate resistance	12000 ohm	Published section value
Amplification factor	4.1	Published section value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Supply Voltage	770 V	DC Plate Supply Voltage 770 volts
Peak Positive-Pulse Plate Voltage#	6500 V	Peak Positive-Pulse Plate Voltage# 6500 volts
Peak Negative-Pulse Plate Voltage	1500 V	Peak Negative-Pulse Plate Voltage 1500 volts
DC Grid-No.3 Voltage*	75 V	DC Grid-No.3 Voltage* 75 volts
DC Grid-No.2 Voltage	220 V	DC Grid-No.2 Voltage 220 volts
DC Grid-No.1 Voltage, Negative-bias value -	55 V	DC Grid-No.1 Voltage, Negative-bias value -55 volts
Peak Negative-Pulse Grid-No.1 Voltage	330 V	Peak Negative-Pulse Grid-No.1 Voltage 330 volts
Peak Cathode Current	950 mA	Peak Cathode Current 950 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Cathode Current	275 mA	Average Cathode Current 275 mA
Plate Dissipation!	17 W	Plate Dissipation! 17 watts
Grid-No.2 Input	3.5 W	Grid-No.2 Input 3.5 watts
Grid-No.1-Circuit Resistance, for grid-No.1-resistor-bias operation	2.2 Mohm	Grid-No.1-Circuit Resistance, for grid-No.1-resistor-bias operation 2.2 megohms
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	10 us	# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).
* In ft horizontal-deflection-amplifier service, a positive voltage (typical value,	30 V	* In ft horizontal-deflection-amplifier service, a positive voltage (typical value, 30 volts) may
Maximum plate/supply voltage	770 V	Published section value
Maximum screen-grid voltage	220 V	Published section value
Maximum plate dissipation	17 W	Published section value

TUBE TINKER

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