

ELECTRONIC TUBE REFERENCE

22KM6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power tube designed specifically for horizontal-deflection amplifier service in 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	8000 Ω
TRANSCONDUCTANCE	0.0095 S
AMPLIFICATION FACTOR	4
MAXIMUM PLATE VOLTAGE	770 V
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	20 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	275 mA
<i>Supplied 22KM6 sheet identifies this as a heater-voltage variant of 6KM6. Promoted beam-power electrical fields were populated from the exact parent-type technical data; heater values remain specific to the supplied 22KM6 sheet.</i>	

Beam power tube for horizontal-deflection amplifier service in 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	8000 ohm	ExactParentElectricalData 6KM6
Transconductance	9500 uS	ExactParentElectricalData 6KM6
Amplification factor	4	ExactParentElectricalData 6KM6

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	770 V	ExactParentElectricalData 6KM6
Maximum screen-grid voltage	220 V	ExactParentElectricalData 6KM6
Maximum plate dissipation	20 W	ExactParentElectricalData 6KM6
Maximum screen-grid dissipation	3.5 W	ExactParentElectricalData 6KM6
Peak positive-pulse plate voltage	6500 V	ExactParentElectricalData 6KM6



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	200 V	Other;PublishedValue1
Peak value	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	3 V	MaximumRating;PublishedValue1
DC Grid-No	75 V	MaximumRating;PublishedValue2
DC Grid-No	2 V	MaximumRating;PublishedValue1
DC Grid-No	220 V	MaximumRating;PublishedValue2
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	3.5 W	MaximumRating;PublishedValue2
Plate Dissipation"	20 W	MaximumRating
For grid-resistor-bias operation	0.47 megohm	MaximumCircuitValue
For plate-pulsed operation	10 megohm	MaximumCircuitValue
ference a typical value for this voltage is	30 V	MaximumRating
Maximum Plate Voltage	770 V	Section1;Promoted
Maximum Screen Voltage	140 V	Section1;Promoted
Maximum Plate Dissipation	20 W	Section1;Promoted
Maximum Screen Dissipation	3.5 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
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
Plate Voltage	140 V	Characteristic;PublishedValue1
Plate Voltage	60 V	Characteristic;PublishedValue2
Plate Voltage	140 V	Characteristic;PublishedValue3
Positive-Pulse	6500 V	Characteristic
Grid-No	3 V	Characteristic;PublishedValue1
Grid-No	0 V	Characteristic;PublishedValue2
Grid-No	30 V	Characteristic;PublishedValue3
Grid-No	30 V	Characteristic;PublishedValue4
Grid-No	2 V	Characteristic;PublishedValue1
Grid-No	140 V	Characteristic;PublishedValue2
Grid-No	140 V	Characteristic;PublishedValue3
Grid-No	140 V	Characteristic;PublishedValue4
Grid-No.1 (Control-Grid) Voltage	-24.5 V	Characteristic;PublishedValue1
Grid-No.1 (Control-Grid) Voltage	0 V	Characteristic;PublishedValue2
Grid-No.1 (Control-Grid) Voltage	-24.5 V	Characteristic;PublishedValue3
Plate Resistance (Approx.)	6000 ohm	Characteristic
Transconductance	9500 uS	Characteristic
Plate Current	560 mA	Characteristic;PublishedValue1
Plate Current	80 mA	Characteristic;PublishedValue2
Grid-No	2 mA	Characteristic;PublishedValue1
Grid-No	31 mA	Characteristic;PublishedValue2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	2.4 mA	Characteristic;PublishedValue3
Grid-No.1 Voltage for plate current	1 mA	Characteristic;PublishedValue1
Grid-No.1 Voltage for plate current	-110 mA	Characteristic;PublishedValue2
Grid-No.1 Voltage for plate current	-42 mA	Characteristic;PublishedValue3
PLATE	3 V	Characteristic
Plate Resistance	6000 ohm	Section1;Promoted
Transconductance	9500 uS	Section1;Promoted

TUBE TINKER

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