ELECTRONIC TUBE REFERENCE

21LG6A

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

High-pulse beam-power tube intended for television horizontal-deflection circuits, with multi-kilovolt plate-pulse ratings and limits defined by horizontal scanning-cycle duration.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	22.4 V / 460 mA	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Beam Power

PLATE RESISTANCE	7500 Ω
MAXIMUM PLATE VOLTAGE	7600 V
MAXIMUM SCREEN VOLTAGE	900 V
MAXIMUM PLATE DISSIPATION	28 W
MAXIMUM CATHODE CURRENT	1.1 A

BeamPower section; ratings and characteristics promoted where clearly attributable.

21LG6A 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

1975 RCA RC30

SOURCE PDF

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**
Grid-No.l-Circuit Resistance, for horizontal-deflection circuit	**2.2 Mohm**	Grid-No.l-Circuit Resistance, for horizontal-deflection circuit 2.2 megohms
# Pulse duration must not exceed 22% of a horizontal scanning cycle (	**18 us**	# Pulse duration must not exceed 22% of a horizontal scanning cycle (18 microseconds)
DC Plate Supply Voltage	**900 V**	DC Plate Supply Voltage 900 volts
Peak Positive-Pulse Plate Voltage*	**7600 V**	Peak Positive-Pulse Plate Voltage* 7600 volts
Peak Negative-Pulse Plate Voltage	**100 V**	Peak Negative-Pulse Plate Voltage 100 volts
Grid-No.2 Voltage	**250 V**	Grid-No.2 Voltage 250 volts
Grid-No. 1 Voltage, Negative-bias value	**300 V**	Grid-No. 1 Voltage, Negative-bias value 300 volts
Plate Dissipation"	**28 W**	Plate Dissipation" 28 watts
Average Cathode Current	**315 mA**	Average Cathode Current 315 mA
Peak Cathode Current	**1100 mA**	Peak Cathode Current 1100 mA
With feedback type high voltage regulation	**1.8 Mohm**	With feedback type high voltage regulation 1.8 megohms
With shunt-type high voltage regulation (switching mode)	**2.2 Mohm**	With shunt-type high voltage regulation (switching mode) .... 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).
Heater Voltage (ac/dc) 16.8	**22.4 V**	Heater Voltage (ac/dc) 16.8 22.4 volts
Heater Current 0.6	**460 mA**	Heater Current 0.6 0.46 ampere
Heater Warm-up Time 11	**11 s**	Heater Warm-up Time 11 11 seconds

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage#	**5000 V**	Peak Inverse Plate Voltage# 5000 volts
Peak Plate Current	**1100 mA**	Peak Plate Current 1100 mA
Average Plate Current	**175 mA**	Average Plate Current 175 mA
Plate Dissipation	**6.5 W**	Plate Dissipation 6.5 watts
Maximum plate/supply voltage	**7600 V**	Published section value
Maximum screen-grid voltage	**900 V**	Published section value

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage 125 6000 50	**175 V**	Plate Voltage 125 6000 50 175 volts
Grid-No.2 (Screen-Grid) Voltage	**125 V**	Grid-No.2 (Screen-Grid) Voltage .... 125 125 125 125 volts
Grid-No.l (Control-Grid) Voltage —25 0 —	**23 V**	Grid-No.l (Control-Grid) Voltage —25 0 —23 volts
Plate Resistance (Approx.)	**7500 ohm**	Plate Resistance (Approx.) 7500 ohms
Plate Current 600	**90 mA**	Plate Current 600 90 mA
Grid-No.2 Current 42	**1.7 mA**	Grid-No.2 Current 42 1.7 mA
current of	**1 mA**	current of 1 mA —45 volts
Tube Voltage Drop for plate current of	**350 mA**	Tube Voltage Drop for plate current of 350 mA 32 volts
# Pulse duration must not exceed 15% of one horizontal scanning cycle (	**10 us**	# Pulse duration must not exceed 15% of one horizontal scanning cycle (10 microseconds).
Plate resistance	**7500 ohm**	Published section value

Tube Tinker

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