

ELECTRONIC TUBE REFERENCE

6HV5A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Duodecar pulse-regulator triode for high-voltage color-television power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GY	BASE PINS	12
NOMINAL HEATER	6.3 V / 1.8 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4600 Ω
TRANSCONDUCTANCE	0.065 S
AMPLIFICATION FACTOR	300
MAXIMUM PLATE DISSIPATION	35 W
MAXIMUM CATHODE CURRENT	325 mA
Frame-grid beam triode; pulse regulator.	

Duodecar type used as a pulse-type regulator in the high-voltage power supply of color television receivers. Outlines section, 15F; requires duodecar 12-contact 12GY socket. Heater: volts (ac/dc), 6.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Voltage	5500 V	PulseRegulator
Typical Pulse Plate Voltage	3500 V	PulseRegulator
Peak Plate Current	300 mA	PulseRegulator



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse Plate Voltage*	3500 volts	Pulse Plate Voltage* 3500 volts
Grid-Voltage, Negative-bias value	4.4 volts	Grid-Voltage, Negative-bias value +200 4.4 volts
Peak Plate Current	300 mA	Peak Plate Current 300 mA
Amplification Factor	300	Amplification Factor 300
Transconductance	65000	Transconductance 65000 /xmhos
Plate Resistance (Approx.)	4600 ohms	Plate Resistance (Approx.) 4600 ohms
Grid Voltage (Approx.) for plate current of	13 mA	Grid Voltage (Approx.) for plate current of 1 mA - 13 volts
Peak Plate Voltage*	5500 volts	Peak Plate Voltage* 5500 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Current	325 mA	Peak Plate Current 325 mA
Grid-Circuit Resistance*	0.1 megohm	Grid-Circuit Resistance* 0.1 megohm

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No	2	Grid No.2 (Beam Plate) Connected to cathode at socket
Plate Dissipation	35 watts	Plate Dissipation 35 watts