

ELECTRONIC TUBE REFERENCE

6HS5

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Duodecar pulse-regulator triode for the high-voltage power supply of color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GY	BASE PINS	12
NOMINAL HEATER	6.3 V / 1.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12GY - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	–	G1 – Control Grid	CONNECTED
PIN3	–	G2 – Screen Grid	CONNECTED
PIN4	–	K – Cathode	CONNECTED
PIN5	–	–	IC
PIN6	–	–	IC
PIN7	–	P – Plate (Anode)	CONNECTED
PIN8	–	–	IC
PIN9	–	–	IC
PIN10	–	G2 – Screen Grid	CONNECTED
PIN11	–	G1 – Control Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4600 Ω
TRANSCONDUCTANCE	0.065 S
AMPLIFICATION FACTOR	300
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	325 mA
<i>Published maximum ratings and characteristics promoted semantically from the approved source.</i>	

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 socket. Heater: volts (ac/dc), 6.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	4600 ohm	—
Transconductance	65000 μ S	—
Amplification Factor	300	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	5500 V	—
Maximum Plate Dissipation	30 W	—
Maximum Cathode Current	325 mA	—
Pulse Plate Voltage	3500 V	High-voltage regulator service
Peak Plate Current	300 mA	Pulse operation



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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid- Voltage, Negative-bias value	4.4	Grid- Voltage, Negative-bias value 4.4 volts
Peak Plate Current	300 mA	Peak Plate Current 300 mA
Amplification Factor	300	Amplification Factor 300
Transconductance	65000	Transconductance +200 65000 μ mhos
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
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	30 watts	Plate Dissipation 30 watts

TUBE TINKER

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

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