

ELECTRONIC TUBE REFERENCE

6LF6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Exceptionally high-current Duodecar beam pentode for color-television horizontal-deflection output, with approximately 40 W plate dissipation and multi-kilovolt flyback pulse capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GW	BASE PINS	12
NOMINAL HEATER	6.3 V / 2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12GW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN3	–	G2 – Screen Grid	CONNECTED
PIN4	–	G3 – Suppressor Grid	CONNECTED
PIN5	–	G1 – Control Grid	CONNECTED
PIN7	–	–	IC
PIN9	–	G1 – Control Grid	CONNECTED
PIN10	–	G3 – Suppressor Grid	CONNECTED
PIN11	–	G2 – Screen Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED
CAP1	–	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM SCREEN DISSIPATION	9 W
<i>Published source values promoted where applicable.</i>	

Duodecar beam power tube used as a horizontal-deflection amplifier in color television receivers.



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 · Beam Power

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Horizontal deflection amplifier	—



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 Voltage	6.3 V	Nominal
Heater Current	2 A	Nominal
Peak Positive-Pulse Plate Voltage	8000 V	HorizontalDeflection
Peak Heater-Cathode Voltage	275 V	—
Plate Voltage	50 V	ClassA;Condition1
Screen Voltage	175 V	ClassA;Condition1
Control Grid Voltage	-10 V	ClassA;Condition1
Plate Current	800 mA	ClassA;Condition1
Screen Current	70 mA	ClassA;Condition1
Plate Voltage	160 V	ClassA;Condition2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	160 V	ClassA;Condition2
Control Grid Voltage	0 V	ClassA;Condition2
Plate Current	1400 mA	ClassA;Condition2
Screen Current	45 mA	ClassA;Condition2
Beam Plates Circuit Resistor	10000 ohm	HorizontalDeflection
Peak Negative-Pulse Control-Grid Voltage	550 V	HorizontalDeflection
Bulb Temperature	300 C	HorizontalDeflection

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