

ELECTRONIC TUBE REFERENCE

12JN6A

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Compactron beam-power pentode intended primarily for television horizontal-deflection amplification, a 12.6 V heater counterpart of the 6JN6A design.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FK	BASE PINS	12
NOMINAL HEATER	12.6 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12FK - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0073 S
AMPLIFICATION FACTOR	4.4
MAXIMUM PLATE VOLTAGE	770 V
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	17.5 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	550 mA
<i>Approved sheet publishes only heater characteristics plus equivalence to 6JN6A; other electrical ratings intentionally not inferred from an absent reference sheet.</i>	

The 12JN6A is a Compactron beam-power pentode intended primarily as a television horizontal-deflection amplifier. Its supplied registration sheet gives the 12 V, 0.6 A heater data and states that other characteristics are identical to 6JN6A.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Beam Power

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current tolerance	560 mA–640 mA	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	11 s	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1970 Sylvania Technical Manual

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

1970 SYLVANIA TECHNICAL MANUAL

Section 1 · Beam Power

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.34 pF	Unshielded grid 1 to plate; Sylvania 1970
Input capacitance	16 pF	Unshielded input; Sylvania 1970
Output capacitance	7 pF	Unshielded output; Sylvania 1970

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	6500 V	Peak positive plate pulse; Sylvania 1970

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak negative pulse plate voltage	-1500 V	Peak negative plate pulse; Sylvania 1970
Positive DC beam-plate voltage	70 V	Positive DC beam plate; Sylvania 1970
Average cathode current	175 mA	Maximum average cathode current; Sylvania 1970
Plate voltage	250 V	Typical plate voltage; Sylvania 1970
Grid #2 voltage	150 V	Typical screen voltage; Sylvania 1970
Grid #1 voltage	-22.5 V	Typical control-grid voltage; Sylvania 1970
Plate current	70 mA	Typical plate current; Sylvania 1970
Grid #2 current	2.4 mA	Typical screen current; Sylvania 1970
Plate voltage	55 V	Instantaneous knee; screen=150 V, control grid=0 V; Sylvania 1970
Plate current	345 mA	Instantaneous knee; plate=55 V; Sylvania 1970
Grid #2 current	30 mA	Instantaneous knee; plate=55 V; Sylvania 1970
Peak Heater-Cathode Voltage	200 V	Heater negative relative to cathode, DC and peak; Sylvania 1970
Peak Heater-Cathode Voltage	100 V	Heater positive relative to cathode, DC; Sylvania 1970
Peak Heater-Cathode Voltage	200 V	Heater positive relative to cathode, DC and peak; Sylvania 1970

TUBE TINKER

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