



ELECTRONIC TUBE REFERENCE

8628

Nuvistor Tubes (all numbers) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Power transmitting triode for RF, audio, control, and industrial service, with published operating conditions and construction data.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 90 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	41000 Ω
TRANSCONDUCTANCE	0.0031 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.3 W
<i>Published promoted values applied where semantically applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.</i>	

Power or transmitting triode for RF, audio, control, or industrial service. The supplied datasheet was reviewed for heater/filament data, maximum ratings, characteristics, typical operating conditions, capacitances, and construction details.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage, (DC or AC)	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Neater Current at $E_f = 6.3 \text{ V}$ – published value 1	6.3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Neater Current at $E_f = 6.3 \text{ V}$ – published value 2	100 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Input	0.63 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode	0.2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to cathode	2.6 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx.)	41	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance	3100	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Plate Current	1.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cutoff DC Grid Voltage for $I_b = 10 \text{ } \mu\text{A}$ – published value 1	10 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff DC Grid Voltage for $I_b = 10 \mu A$ – published value 2	-1.7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Voltage	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	120 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Supply Voltage	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	330 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Plate Voltage	250 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Peak Heater-Cathode Voltage	1100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Voltage, DC or AC – published value 1	5.7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Voltage, DC or AC – published value 2	6.9 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation	0.3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For fixed-bias operation	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For cathode-bias operation	100	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 2 -Plate	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 -Grid	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 10 -Heater	10	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 12 -Heater	12	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode Bias Resistor (Bypassed)	3.3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode Load Resistor	15	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Resistor	100	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Source resistance (P.\$) = 1 Gfl – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Source resistance (P.\$) = 1 Gfl – published value 2	7	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current – published value 1	0	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Plate Current	0.3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 1	90 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 2	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to plate – published value 2	0.7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 2	0 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 3	17 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode – published value 4	0.23 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 2	0.8 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 3	1.2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance – published value 1	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance – published value 2	2200	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance – published value 3	4000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current – published value 1	3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current – published value 2	0.7 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current – published value 3	2.3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff Plate Current – published value 1	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cutoff Plate Current – published value 2	200	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
AC Voltage Amplification – published value 1	5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
AC Voltage Amplification – published value 2	7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Total Grid Current – published value 1	6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Total Grid Current – published value 2	-0.05	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cc(in) = 0.1μF, grid-signal-source internal impedance – published value 1	0	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cc(in) = 0.1μF, grid-signal-source internal impedance – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cc(out) – ~• 5 μF. RMS voltage component measured across	5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
the series plate resistor with a 5 MS2 (min.) input im	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
ERp (AC Voltage Amplification)	6 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration-Frequency Range (Overall) – published value 1	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration-Frequency Range (Overall) – published value 2	500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration-Frequency Range (Overall) – published value 3	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vibration-Frequency Range (Overall) – published value 1	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration-Frequency Range (Overall) – published value 2	15	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

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