



ELECTRONIC TUBE REFERENCE

8808

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 / 340 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6400 Ω
TRANSCONDUCTANCE	0.018 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	1 A
<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.

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Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage, do or ac	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current at $E_h = 6.3\text{ V}$ – published value 1	6.3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current at $E_h = 6.3\text{ V}$ – published value 2	340 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode	2.6 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate to cathode	0.05 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Amplification Factor	100	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx.)	6400	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance	18000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Plate Current	15 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	200 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Supply Voltage	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Above 50,000 feet.... See Breakdown-Voltage Characteristics – published value 1	50 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Above 50,000 feet.... See Breakdown-Voltage Characteristics – published value 2	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Plate Voltage	1000 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Voltage, do 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, do or ac – published value 2	6.9 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Peak Cathode Current	1000 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Cathode Current	75 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation	6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Dissipation	200	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
bias operation	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Frequency	1	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.
DC Plate-to-Grid Voltage	206 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Cathode-to-Grid Voltage	5.8 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
From grid resistor of	300	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current	19 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output(Approx.)	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Output Frequency	1.2	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.
DC Plate-to-Grid Voltage	200 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Cathode-to-Grid Voltage	11 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
From grid resistor of	1000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Plate Current	38 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current	10.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output(Approx.)	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Output Frequency – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Output Frequency – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate-to-Grid Voltage – published value 1	500 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Plate-to-Grid Voltage – published value 2	1000 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Cathode-to-Grid Voltage – published value 1	16 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
DC Cathode-to-Grid Voltage – published value 2	20 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Plate Current – published value 1	9 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Plate Current – published value 2	4.75 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current – published value 1	5.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Grid Current – published value 2	1.4 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Power Output – published value 1	2.5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Average Power Output – published value 2	2.4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation (Approx.) – published value 1	2.4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation (Approx.) – published value 2	2.7	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
As defined in the current issue of EIA Standard RS-239	239	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
of plate dissipation and a chassis temperature of 25°C	25	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 2 -Cathode – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 2 -Cathode – published value 2	10	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 3* - Do Not Use – published value 1	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 3* - Do Not Use – published value 2	12	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 , -Cathode	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
The peak cathode current is for a duty factor of up to 1% or	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
CATHODE VOLTAGE I _{Ey} I-V – published value 1	92 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
CATHODE VOLTAGE I _{Ey} I-V – published value 2	14339 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.