



ELECTRONIC TUBE REFERENCE

8380

Nuvistor Tubes (all numbers) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Power tetrode designed for RF, transmitting, and power-amplifier service, with manufacturer data covering ratings, operating conditions, capacitances, and construction for substantial output applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.5 V / 1.05 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE DISSIPATION	1.6 W
<i>Published promoted values applied where semantically applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.</i>	

Tetrode for RF, transmitting, or power-amplifier 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](#)

1971 RCA HB3 Binder 3 of 7

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 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heater voltage between 6.0 and 8.5 volts to meet specific – published value 1	6 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
heater voltage between 6.0 and 8.5 volts to meet specific – published value 2	8.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater	7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater	1.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode	1.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid–No.2 Supply Voltage	50 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance	11000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current	11 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid–No.2 Current	2.9 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 Voltage (Approx.) for plate $\mu a = 10$ – published value 1	10 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.1 Voltage (Approx.) for plate $\mu a = 10$ – published value 2	7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 2 - Grid No.2	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 -Grid No.1	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
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 – published value 1	80 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage – published value 2	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Supply Voltage – published value 1	80 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Supply Voltage – published value 2	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Resistor	12000 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.1 Resistor – published value 1	27000 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.1 Resistor – published value 2	10000 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current – published value 1	7.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current – published value 2	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 1	6 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 2	6 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output at 80 Mcd – published value 1	80 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output at 80 Mcd – published value 2	260 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output at 80 Mcd – published value 3	650 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
o Cathode, grid No. 1, and grid No.2 are operated as a u0-Mc, Colpitts	1 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
"plate" of the Oscillator, and the plate circuit tuned LO 80 Mc	80 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 2	0.95	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 3	1.05	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.1 to plate – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.1 to plate – published value 2	0 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater – 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
and heater – published value 2	6 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater – published value 3	8 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater – published value 1	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater – published value 2	1.2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
and heater – published value 3	1.6 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	1.1 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 3	1.7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (1) – published value 1	1 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (1) – published value 2	3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (1) – published value 3	9 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (1) – published value 4	13 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) . 1,4 – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) . 1,4 – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (2) . 1,4 – published value 3	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) . 1,4 – published value 4	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 1	1 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 2	3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 3	4 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1). 1,3 – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1). 1,3 – published value 2	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1). 1,3 – published value 3	9000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1). 1,3 – published value 4	13000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.2 – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.2 – published value 2	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.2 – published value 3	2000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output (2)5,6 – published value 1	2 W	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output (2)5,6 – published value 2	5 W	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Power Output (2)5,6 – published value 3	6 W	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Useful Power Output (2)5,6 – published value 4	0.5 W	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current – published value 2	7	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current – published value 3	0.3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
= 50, grid No.1 and metal Shell connected to negative end of	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
bypass capacitor (μf) = 1000	1000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	50 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	5 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	40 MHz	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
do plate supply volts = 150, tic grid → 0.2 supply volts = 150, – published value 1	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
do plate supply volts = 150, tic grid → 0.2 supply volts = 150, – published value 2	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater negative with respect to cathode	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater positive with respect to cathode	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid No.1 to plate	0.015 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	300 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Voltage	250 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 (Screen-Grid) Supply Voltage	300 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Voltage	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Negative-bias value	55 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Positive-bias value	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode Current	25 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Input	0.2 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	1.6 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Fer fixed-bias operation	0.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For cathode-bias operation	1 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	300 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.1 Current	3 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.2 Input	0.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-No.1-Circuit Resistance	0.05 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

TUBE TINKER

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