

ELECTRONIC TUBE REFERENCE

8393

Nuvistor Tubes (all numbers) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Industrial medium-mu Nuvistor triode for general-purpose amplifier and oscillator service extending into the UHF region.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12AQ	BASE PINS	—
NOMINAL HEATER	13.5 V / 60 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.009 S
Published promoted values applied where semantically applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.	

Industrial medium-mu Nuvistor triode for general-purpose amplifier or oscillator service extending into the UHF region; it is related to type 7586 with specified differences.

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) – published value 1	13.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 2	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 3	4 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 13.5 – published value 1	13 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 13.5 – published value 2	5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 13.5 – published value 3	0.06 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate	2.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode	1.7 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 1	10	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 2	0.055	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current – published value 3	0.065	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.
Grid to plate – published value 2	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate – published value 3	2.8 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	1.4 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 3	2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) – published value 2	11	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) – published value 3	9000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 10 – published value 1	10 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 10 – published value 2	13.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 1 1 – published value 1	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 1 1 – published value 2	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Note 1 1 – published value 3	12 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater volts = 18.0	18 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.



SOURCE DATA APPENDIX

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 13.5	1.4 V	Published in approved 8393 target datasheet entry; Section1
Heater Current	60 mA	Published in approved 8393 target datasheet entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	2.4 pF	Published in approved 8393 target datasheet entry; Section1
Grid to Cathode, Heater, and Shell	4.4 pF	Published in approved 8393 target datasheet entry; Section1
Plate to Cathode, Heater, and Shell	1.6 pF	Published in approved 8393 target datasheet entry; Section1
Plate to Cathode	0.26 pF	Published in approved 8393 target datasheet entry; Section1
Heater to Cathode	1.7 pF	Published in approved 8393 target datasheet entry; Section1

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

