

ELECTRONIC TUBE REFERENCE

7898

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Rugged high-reliability subminiature twin triode for critical amplifier and control circuits, intended for stable operation under severe environmental conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	13.5 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10900 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.75 W
Published promoted values applied where semantically applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.	

SECTION2 Triode	
PLATE RESISTANCE	10900 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.75 W
<i>Second physical triode section; added to align rows with SectionCount.</i>	

Twin triode for amplifier, driver, control, or regulator 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
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	1.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 13.5 – published value 1	13.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 13.5 – published value 2	0.15 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid-Drive 0ꝓe ration	0	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate (Each unit) – published value 1	1.6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid to plate (Each unit) – published value 2	1.6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Voltage	13.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	250 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx.)	10900 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current	10 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate μ a 10 – published value 1	10 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate μ a 10 – published value 2	-12 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 1 -Plate of – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 1 -Plate of – published value 2	6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 2 -Grid of – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 2 -Grid of – published value 2	7	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 -Heater – published value 1	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4 -Heater – published value 2	9	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 5 -Heater	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
a Heater will withstand momentary excursions from 11.0 to 16.0 volts – published value 1	11 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
a Heater will withstand momentary excursions from 11.0 to 16.0 volts – published value 2	16 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
19.5 cycled one minute on and two minutes off; heater 135 ~YY/ – published value 1	19.5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
19.5 cycled one minute on and two minutes off; heater 135 ~YY/ – published value 2	135	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
in paral lel , heater volts = 13.5, plate –supply volts = 250, – published value 1	13.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
in paral lel , heater volts = 13.5, plate –supply volts = 250, – published value 2	250 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
grid volts = –3, plate load resistor (ohms) = 2000, and vibra– – published value 1	3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
grid volts = –3, plate load resistor (ohms) = 2000, and vibra– – published value 2	2000 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
output voltage must not exceed 150 mi l l i volts	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
conducted underthe fol lowing conditions: Heater volts = 15.0	15 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PLATE VOLTS=250	250 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE VOLTAGE	330 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.
PLATE DISSIPATION – published value 1	2 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PLATE DISSIPATION – published value 2	75 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For fixed-bias operation – published value 1	0 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For fixed-bias operation – published value 2	25 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.

TUBE TINKER

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