



ELECTRONIC TUBE REFERENCE

830B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Thoriated-tungsten power triode for audio-modulator and RF amplifier or oscillator service, principally as a renewal type. Approximately 75 W plate dissipation and kilovolt-class operation support moderate transmitting and modulation applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	75 W
MAXIMUM CATHODE CURRENT	150 mA
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

Thoriated-tungsten power triode for audio modulator and RF amplifier/oscillator service, used principally for renewal applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 RCA Transmitting Tubes

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

1938 RCA TRANSMITTING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
at maximum rated conditions at frequencies as high as	15 MHz	at maximum rated conditions at frequencies as high as 15 megacycles. The plate
dissipation for class C telegraph and class B services is	60 W	dissipation for class C telegraph and class B services is 60 watts. In class B audio
service two tubes of this type are capable of delivering an output of	175 W	service two tubes of this type are capable of delivering an output of 175 watts.
D-C Plate Voltage	1000 V	D-C Plate Voltage . 1000 max. Volts
D-C Plate Voltage . 800	1000 V	D-C Plate Voltage . 800 1000 Volts
Peak A-F Grid-to-Grid Voltage .. 250	270 V	Peak A-F Grid-to-Grid Voltage .. 250 270 Volts
Zero-Sig. D-C Plate Current .. 20	20 mA	Zero-Sig. D-C Plate Current .. 20 20 Milliamperes
Max.-Sig. D-C Plate Current. 280	280 mA	Max.-Sig. D-C Plate Current. 280 280 Milliamperes
Load Resistance (Per tube) . 1500	1900 Ω	Load Resistance (Per tube) . 1500 1900 Ohms
Effective Load Res. (Plate'to'plate) . 6000	7600 Ω	Effective Load Res. (Plate'to'plate) . 6000 7600 Ohms
Max.-Sig. Driving Power (Approx.) . 5	6 W	Max.-Sig. Driving Power (Approx.) . 5 6 Watts
Max.-Sig. Power Output (Approx.) . 135	175 W	Max.-Sig. Power Output (Approx.) . 135 175 Watts
D-C Plate Current	100 mA	D-C Plate Current.. 100 max. Milliamperes
Plate Input	90 W	Plate Input. 90 max. Watts
D-C Plate Voltage ... 800	1000 V	D-C Plate Voltage ... 800 1000 Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Plate Current .. 95	85 mA	D-C Plate Current .. 95 85 Milliamperes
D-C Grid Current (Approx.) 7	6 mA	D-C Grid Current (Approx.) 7 6 Milliamperes
Driving Power (Approx.)t ... 9	6 W	Driving Power (Approx.)t ... 9 6 Watts
D-C Plate Voltage	800 V	D-C Plate Voltage 800 max. Volts
D-C Grid Voltage	-300 V	D-C Grid Voltage..... -300 max. Volts
D-C Plate Current	100 mA	D-C Plate Current... 100 max. Milliamperes
D-C Grid Current	30 mA	D-C Grid Current..... 30 max. Milliamperes
D-C Plate Voltage... 600	800 V	D-C Plate Voltage... 600 800 Volts
D-C Plate Voltage	1000 V	D-C Plate Voltage . 1000 max. Volts
D-C Grid Voltage	-300 V	D-C Grid Voltage. ... -300 max. Volts
D-C Plate Current	150 mA	D-C Plate Current. 150 max. Milliamperes
D-C Grid Current	30 mA	D-C Grid Current.. . 30 max. Milliamperes
Plate Input	150 W	Plate Input.. 150 max. Watts
Plate Dissipation	60 W	Plate Dissipation . 60 max. Watts
D-C Plate Voltage . 600 800	1000 V	D-C Plate Voltage . 600 800 1000 Volts
Peak R-F Grid Voltage .. 235 245	250 V	Peak R-F Grid Voltage .. 235 245 250 Volts
D-C Plate Current ... 140 140	140 mA	D-C Plate Current ... 140 140 140 Milliamperes
Grid Resistor .-. 3160 3500	3670 Ω	Grid Resistor .-. 3160 3500 3670 Ohms
Driving Power (Approx.) - 7 7	7 W	Driving Power (Approx.) - 7 7 7 Watts
Power Output (Approx.) - 45 70	90 W	Power Output (Approx.) - 45 70 90 Watts
each stated value of grid voltage should be decreased by	7 V	each stated value of grid voltage should be decreased by 7 volts and the circuit returns made to the



1945 United Electronics

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

1945 UNITED ELECTRONICS

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	10 V	—
Filament current	2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	1250 V	—
Maximum plate dissipation	75 W	—



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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	10 V	—
HeaterOrFilamentCurrent	2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyForMaximumRatings	15 MHz	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	25	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	1000 V	—
Maximum Plate Dissipation	60 W	—
Maximum Cathode Current	150 mA	—
Full-Input Operating Frequency Maximum	15 MHz	—

TUBE TINKER

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

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