



ELECTRONIC TUBE REFERENCE

800

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Medium-mu RCA transmitting triode for RF and Class B audio power service. With 35 W plate dissipation and 1.25 kV capability, it operates to about 60 MHz and supports substantial push-pull audio output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	35 W
<i>Published ratings and characteristics from source sheet.</i>	

The RCA 800 is a thoriated-tungsten power triode for AF amplification/modulation and RF amplification/oscillation.

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
frequencies as high as	60 MHz	frequencies as high as 60 megacycles. The maximum plate dissipation for class B
and class C telegraph services is	35 W	and class C telegraph services is 35 watts. The grid and plate leads of the 800
Peak A-F Grid-to-Grid Voltage- 320 300	300 V	Peak A-F Grid-to-Grid Voltage- 320 300 300 Volts
Max.-Sig. D-C Plate Current- 210 160	130 mA	Max.-Sig. D-C Plate Current- 210 160 130 Milliamperes
Effective Load Res. (Plate-to-plate).. 6400 12500	21000 Ω	Effective Load Res. (Plate-to-plate).. 6400 12500 21000 Ohms
Max.-Sig. Driving Power (Approx.)... 6 4.4	3.4 W	Max.-Sig. Driving Power (Approx.)... 6 4.4 3.4 Watts
Max.-Sig. Power Output (Approx.)- 90 100	106 W	Max.-Sig. Power Output (Approx.)- 90 100 106 Watts
D-C Plate Voltage	1000 V	D-C Plate Voltage 1000 max. Volts
D-C Grid Voltage	-400 V	D-C Grid Voltage.. -400 max. Volts
D-C Grid Current	25 mA	D-C Grid Current . 25 max. Milliamperes
Pi ATP Twpttt	80 W	Pi ATP Twpttt .. 80 max. Watts
D-C Plate Voltage.. . 750	1000 V	D-C Plate Voltage.. . 750 1000 Volts
D-C Grid Current (Approx.) - -- .. 15	15 mA	D-C Grid Current (Approx.) --- .. 15 15 Milliamperes
Grid Resistor 10000	13300 Ω	Grid Resistor 10000 13300 Ohms
Driving Power (Approx.)- . 3	4 W	Driving Power (Approx.)- . 3 4 Watts
D'C Plate	80 mA	D'C Plate . 80 max. Milliamperes
Plate Dissipation	35 W	Plate Dissipation - ---- 35 max. Watts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Plate Voltage 750 1000	1250 V	D-C Plate Voltage 750 1000 1250 Volts
Peak R-F Grid Voltage.. 225 260	300 V	Peak R-F Grid Voltage.. 225 260 300 Volts
D-C Plate Current - 70 70	70 mA	D-C Plate Current - 70 70 70 Milliamperes
D-C Grid Current (Approx.)- 15 15	15 mA	D-C Grid Current (Approx.)- 15 15 15 Milliamperes
Driving Power (Approx.) - 2 3	4 W	Driving Power (Approx.) - 2 3 4 Watts
Power Output (Approx.) - 35 50	65 W	Power Output (Approx.) - 35 50 65 Watts
each stated value of grid voltage should be decreased by	5 V	each stated value of grid voltage should be decreased by 5 volts and the circuit returns made to the
For high-frequency operation above	60 MHz	For high-frequency operation above 60 megacycles, see page 144.



SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Full-Input Frequency	60 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Current	80 mA	—

TUBE TINKER

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

