



ELECTRONIC TUBE REFERENCE

801

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Transmitting power triode intended for RF amplifier and oscillator service, with manufacturer ratings emphasizing radio-frequency output, substantial plate loading, and professional transmitter operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	7.5 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.00184 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	20 W
<i>Published ratings and characteristics from source sheet.</i>	

Transmitting triode for RF and audio-frequency power amplification and 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
provides for operation at full rating at frequencies as high as	60 MHz	provides for operation at full rating at frequencies as high as 60 megacycles.
D-C Plate Voltage	600 V	D-C Plate Voltage ... 600 max. Volts
Plate Dissipation	20 W	Plate Dissipation 20 max. Watts
D-C Plate Voltage.. 425 500	600 V	D-C Plate Voltage.. 425 500 600 Volts
D-C Plate Current ... 18 24	30 mA	D-C Plate Current ... 18 24 30 Milliamperes
D-C Plate Voltage --- 400 500	600 V	D-C Plate Voltage --- 400 500 600 Volts
Peak A-F Grid-to-Grid Voltage .. 270 290	320 V	Peak A-F Grid-to-Grid Voltage .. 270 290 320 Volts
Load Resistance (Per tube) .. 1500 2000	2500 Ω	Load Resistance (Per tube) .. 1500 2000 2500 Ohms
Effective Load Res. (Plate-to-plate).- 6000 8000	10000 Ω	Effective Load Res. (Plate-to-plate).- 6000 8000 10000 Ohms
Max.-Sig. Driving Power (Approx.) 3 3	3 W	Max.-Sig. Driving Power (Approx.) 3 3 3 Watts
Max.- Sig. Power Output (Approx.) 27 36	45 W	Max.- Sig. Power Output (Approx.) 27 36 45 Watts
D-C Plate Voltage	600 V	D-C Plate Voltage .. 600 max. Volts
D-C Plate Voltage 500	600 V	D-C Plate Voltage 500 600 Volts
D-C Plate Current 45	45 mA	D-C Plate Current 45 45 Milliamperes
D-C Plate Current	60 mA	D-C Plate Current. 60 max. Milliamperes
D'C Plate Voltage 400	500 V	D'C Plate Voltage 400 500 Volts
D'O Plate Current . 55	55 mA	D'O Plate Current . 55 55 Milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Driving Power (Approx) .. 4	4.5 W	Driving Power (Approx) .. 4 4.5 Watts
Power Output (Approx.) . 14	18 W	Power Output (Approx.) . 14 18 Watts
D-C Grid Current	15 mA	D-C Grid Current.. 15 max. Milliamperes
D-C Grid Current (Approx.) - 15	15 mA	D-C Grid Current (Approx.) - 15 15 Milliamperes
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
should not exceed	100 Ω	should not exceed 100,000 ohms.
For high-frequency operation above	60 MHz	For high-frequency operation above 60 megacycles, see page 144.