



ELECTRONIC TUBE REFERENCE

806

Power - Triode (over 1000V 100W) 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	5 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	12.6
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	150 W
MAXIMUM CATHODE CURRENT	305 mA
<i>Published ratings and characteristics from source sheet.</i>	

High-power thoriated-tungsten triode for audio-frequency modulator and RF amplifier or oscillator service.

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	30 MHz	frequencies as high as 30 megacycles. The maximum plate dissipation is 150 watts
D-C Plate Voltage	3000 V	D-C Plate Voltage . 3000 max. Volts
Zero-big. D-G Plate Current.-.. - 20	20 mA	Zero-big. D-G Plate Current.-.. - 20 20 Milliamperes
Load Resistance (Per tube) . . 2875	5375 Ω	Load Resistance (Per tube) . . 2875 5375 Ohms
Effective Load Res. (Plate-to-plate) 11500	21500 Ω	Effective Load Res. (Plate-to-plate) 11500 21500 Ohms
D-C Plate Voltage	3000 V	D-C Plate Voltage ... 3000 max. Volts
D-C Plate Current	150 mA	D-C Plate Current... 150 max. Milliamperes
Plate Dissipation	150 W	Plate Dissipation .. . 150 max. Watts
D-C Grid VoltageS -150	-240 V	D-C Grid VoltageS -150 -240 Volts
D-C Grid Current (Approx.) ■■■min..... 1	0 mA	D-C Grid Current (Approx.) ■■■min..... 1 0 Milliampere
D-C Plate Voltage	2500 V	D-C Plate Voltage .. 2500 max. Volts
D-C Grid Voltage	-1000 V	D-C Grid Voltage . . -1000 max. Volts
D-C Grid Current	50 mA	D-C Grid Current . 50 max. Milliamperes
Plate Input	500 W	Plate Input . 500 max. Watts
Plate Dissipation	110 W	Plate Dissipation . 110 max. Watts
D-C Plate Voltage . . 2000	2500 V	D-C Plate Voltage . . 2000 2500 Volts
Peak R-F Grid Voltage .-... . 790	890 V	Peak R-F Grid Voltage .-... . 790 890 Volts
D-C Plate Current 195	195 mA	D-C Plate Current 195 195 Milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Grid Current (Approx.) . 40 . 40	40 mA	D-C Grid Current (Approx.) . . 40 40 Milliamperes
Driving Power (Approx.) . 28	32 W	Driving Power (Approx.) . 28 32 Watts
Power Output (Approx.) 300	390 W	Power Output (Approx.) 300 390 Watts
I D-C Plate Current	200 mA	I D-C Plate Current.. 200 max. Milliamperes
Plate Input	600 W	Plate Input.. 600 max. Watts
Plate Dissipation	150 W	Plate Dissipation .. . 150 max. Watts
D-C Plate Current -- 195 195	195 mA	D-C Plate Current -- 195 195 195 Milliamperes
each stated value of grid voltage should be decreased by	5.5 V	each stated value of grid voltage should be decreased by 5.5 volts and the circuit returns connected to the
For high-frequency operation above	30 MHz	For high-frequency operation above 30 megacycles, see page 144.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum full-rating frequency	100 MHz	—
Maximum signal power output	1120 W	ClassB



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	3300 V	—
Maximum Plate Dissipation	225 W	—
Maximum Cathode Current	305 mA	—
Full-Input Operating Frequency Maximum	30 MHz	—
Power Output	215 W	ClassC,RF

TUBE TINKER

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