



ELECTRONIC TUBE REFERENCE

805

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	10 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0048 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM CATHODE CURRENT	210 mA
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

High-mu transmitting triode for RF amplifier, oscillator and Class-B audio-amplifier 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
of the RCA-805 is	125 W	of the RCA-805 is 125 watts for class C telegraph and class B services.
D-C Plate Voltage	1500 V	D-C Plate Voltage -- 1500 max. Volts
D-C Plate Voltage- 1250	1500 V	D-C Plate Voltage- 1250 1500 Volts
D-C Plate Voltage	1500 V	D-C Plate Voltage. 1500 max. Volts
D-C Plate Current	150 mA	D-C Plate Current- 150 max. Milliamperes
Plate Input	185 W	Plate Input- 185 max. Watts
D-C Plate Voltage- 1250	1500 V	D-C Plate Voltage- 1250 1500 Volts
D-C Grid Current (Approx.) 15	15 mA	D-C Grid Current (Approx.) 15 15 Milliamperes
D-C Plate Current	175 mA	D-C Plate Current . 175 max. Milliamperes
D-C Plate Voltage..... 1000	1250 V	D-C Plate Voltage..... 1000 1250 Volts
D-C Grid Voltage	-500 V	D-C Grid Voltage -500 max. Volts
D-C Grid Current M	70 mA	D-C Grid Current M 70 max. Milliamperes
D-C Grid Current (Approx.) - - 40 40	40 mA	D-C Grid Current (Approx.) -- 40 40 40 Milliamperes
Driving Power (Approx.)- 8.5 8.5	8.5 W	Driving Power (Approx.)- 8.5 8.5 8.5 Watts
Power Output (Approx.)- 130 170	215 W	Power Output (Approx.)- 130 170 215 Watts
For high-frequency operation above	30 MHz	For high-frequency operation above 30 megacycles, see page 144.



SOURCE OPERATING CONDITIONS

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1940 Taylor Tubes

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

1940 TAYLOR TUBES

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	7.7 pF	—
Grid-to-filament capacitance	8.4 pF	—
Plate-to-filament capacitance	13 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate current	210 mA	ClassC Telegraphy
Maximum grid current	70 mA	ClassC Telegraphy
Power output	270 W	ClassC Telegraphy PlateVoltage=1750V



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1945 United Electronics

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1945 UNITED ELECTRONICS

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	10 V	—
Filament current	3.25 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	1500 V	—
Maximum plate dissipation	125 W	—
Maximum direct plate current	125 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Audio/RF power amplifier and oscillator	—


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1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4800 μ S	—
Amplification Factor	50	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	1500 V	—
Maximum Plate Dissipation	125 W	—
Maximum Cathode Current	210 mA	—


SOURCE DATA APPENDIX

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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	1500 V	—
Maximum Plate Dissipation	125 W	—
Maximum Cathode Current	210 mA	—
Full-Input Operating Frequency Maximum	30 MHz	—
Power Output	370 W	ClassB,AF,TwoTubes


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SOURCE OPERATING CONDITIONS

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1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1500 V	Published Amperex table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	215 W	Published Amperex table
Plate dissipation	125 W	Published Amperex table
Plate current	200 mA	Published Amperex table
Grid bias	105 V	Published Amperex table
Grid current	25 mA	Published Amperex table
Maximum frequency	30 MHz	Published Amperex table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	50	Published Amperex table
Heater/filament voltage	10 V	Published Amperex table
Heater/filament current	3.25 A	Published Amperex table


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1500 V	RFPower
Plate current	200 mA	RFPower
Power output	215 W	RFPower
Grid voltage	-105 V	RFPower
Grid current	0.04 mA	RFPower
Maximum frequency	30 MHz	RFPower

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	6.5 pF	—
Input capacitance	8.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	10.5 pF	—

TUBE TINKER

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and their source documents.

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