



ELECTRONIC TUBE REFERENCE

834

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated radiation-cooled power triode for RF oscillator and amplifier service, primarily as a replacement type. Approximately 50 W plate dissipation and kilovolt plate capability provide moderate transmitter 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	10.5
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	50 W
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

Radiation-cooled directly heated RF oscillator and amplifier triode for replacement 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
high as	100 MHz	high as 100 megacycles; it may be operated at reduced plate voltage and input up
services is	50 W	services is 50 watts.
D-C Plate Voltage	1250 V	D-C Plate Voltage . 1250 max. Volts
D-C Plate Current	100 mA	D-C Plate Current . 100 max. Milliamperes
Plate Input	75 W	Plate Input .. 75 max. Watts
Plate Dissipation	50 W	Plate Dissipation . 50 max. Watts
D-C Plate Voltage ... 750 1000	1250 V	D-C Plate Voltage ... 750 1000 1250 Volts
Peak R-F Grid Voltage . 90 100	115 V	Peak R-F Grid Voltage . 90 100 115 Volts
D-C Plate Current ... 50 50	50 mA	D-C Plate Current ... 50 50 50 Milliamperes
D-C Grid Current (Approx.) . 1 0.5	0 mA	D-C Grid Current (Approx.) . 1 0.5 0 Milliampere
Driving Power (Approx.)t ... 3.3 3.1	3 W	Driving Power (Approx.)t ... 3.3 3.1 3 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 Plate Current	100 mA	D-C Plate Current . . 100 max. Milliamperes
D-C Grid Current	20 mA	D-C Grid Current . 20 max. Milliamperes
Plate Input	100 W	Plate Input . 100 max. Watts
Plate Dissipation	35 W	Plate Dissipation . 35 max. Watts
Power Output (Approx.) ... 42	58 W	Power Output (Approx.) ... 42 58 Watts
D-C Plate Voltage	1250 V	D-C Plate Voltage .. 1250 max. Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Grid Voltage	-400 V	D-C Grid Voltage . -400 max. Volts
D-C Grid Current	20 mA	D-C Grid Current 20 max. Milliamperes
Plate Dissipation	50 W	Plate Dissipation .. 50 max. Watts
D-C Plate Voltage 750 1000	1250 V	D-C Plate Voltage 750 1000 1250 Volts
D-C Plate Current ... 90 90	90 mA	D-C Plate Current ... 90 90 90 Milliamperes
Grid Resistor ...-... 8750 11400	15000 Ω	Grid Resistor ...-... 8750 11400 15000 Ohms
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
at frequencies higher than	60 MHz	at frequencies higher than 60 megacycles, forced cooling of the tube is recom→
For high-frequency operation above	100 MHz	For high-frequency operation above 100 megacycles, see page 144.



SOURCE OPERATING CONDITIONS

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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	7.5 V	—
Filament current	3.25 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	1000 V	—
Maximum plate dissipation	50 W	—



SOURCE OPERATING CONDITIONS

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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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	7.5 V	—
HeaterOrFilamentCurrent	2 A	—



SOURCE OPERATING CONDITIONS

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1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1250 V	RFPowerAmplifier
Plate current	100 mA	RFPowerAmplifier
Power output	75 W	RFPowerAmplifier
Control-grid voltage	-225 V	RFPowerAmplifier
Grid current	15 mA	RFPowerAmplifier
Maximum frequency at full input	100 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2.6 pF	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-filament capacitance	2.2 pF	Section1
Plate-to-filament capacitance	0.6 pF	Section1

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