



ELECTRONIC TUBE REFERENCE

204A

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Filamentary power triode intended for transmitting service as an RF amplifier or oscillator, with operating data emphasizing substantial plate input and output power rather than small-signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	11 V / 3.85 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6300 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	23
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	275 mA
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

The RCA 204A is a large transmitting power triode. The supplied source provides transmitting, RF, or rectifier ratings appropriate to this device.

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
megacycles. The maximum plate dissipation is	250 W	megacycles. The maximum plate dissipation is 250 watts for class C telegraph
D-C Plate Voltage..... 2000 2500	3000 V	D-C Plate Voltage..... 2000 2500 3000 Volts
Max.-Signal D-C Plate Current - 500 420	372 mA	Max.-Signal D-C Plate Current - 500 420 372 Milliamperes
Max.-Sig. Driving Power (Approx.) 20 18	18 W	Max.-Sig. Driving Power (Approx.) 20 18 18 Watts
D-C Plate Voltage	2500 V	D-C Plate Voltage 2500 max. Volts
D-C Plate Current	225 mA	D-C Plate Current 225 max. Milliamperes
Plate Input	400 W	Plate Input - 400 max. Watts
D-C Plate Current- 200	160 mA	D-C Plate Current- 200 160 Milliamperes
D-C Plate Voltage	2000 V	D-C Plate Voltage 2000 max. Volts
D-C Grid Voltage	-500 V	D-C Grid Voltage . -500 max. Volts
D-C Plate Current	275 mA	D-C Plate Current 275 max. Milliamperes
D-C Grid Current	80 mA	D-C Grid Current . 80 max. Milliamperes
Plate Input	550 W	Plate Input. 550 max. Watts
Plate Dissipation	167 W	Plate Dissipation . 167 max. Watts
D-C Plate Current.. 250	250 mA	D-C Plate Current.. 250 250 Milliamperes
Grid Resistor 5710	7140 Ω	Grid Resistor 5710 7140 Ohms
Power Output (Approx.) ... 225	350 W	Power Output (Approx.) ... 225 350 Watts
D-C Plate Voltage	2500 V	D-C Plate Voltage . 2500 max. Volts
D-C Grid Voltage	-500 V	D-C Grid Voltage... -500 max. Volts
D-C Grid Current	80 mA	D-C Grid Current . 80 max. Milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	250 W	Plate Dissipation . --- .. 250 max. Watts
D-C Plate Voltage--- 1500 2000	2500 V	D-C Plate Voltage--- 1500 2000 2500 Volts
Peak R-F Grid Voltage .-. 400 425	440 V	Peak R-F Grid Voltage .-. 400 425 440 Volts
D-C Plate Current.. 250 250	250 mA	D-C Plate Current.. 250 250 250 Milliamperes
D-C Grid Current (Approx.) - 30 30	30 mA	D-C Grid Current (Approx.) -- 30 30 30 Milliamperes
Driving Power (Approx.) . 15 15	15 W	Driving Power (Approx.) . 15 15 15 Watts
Power Output (Approx.) --- 240 350	450 W	Power Output (Approx.) --- 240 350 450 Watts
each 6tated value of grid voltage should be decreased by	8 V	each 6tated value of grid voltage should be decreased by 8 volts and the circuit returns made to the
For high-frequency operation above	3 MHz	For high-frequency operation above 3 megacycles, see page 144.



SOURCE OPERATING CONDITIONS

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193X Taylor Transmitting

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

193X TAYLOR TRANSMITTING

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	11 V	Nominal published value
Filament Current	4 A	Nominal published value
Maximum Operating Plate Voltage	2500 V	Class C oscillator / RF power-amplifier service where published
Maximum Plate Dissipation	250 W	Published maximum rating
Plate to Grid	16 pF	Published direct interelectrode capacitance
Grid to Filament	14 pF	Published direct interelectrode capacitance

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	6300 ohm	Published general characteristic
Mutual Conductance	4000 μ S	Published general characteristic
Amplification Factor	25	Published general characteristic



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	11 V	—
Filament current	3.85 A	—
Plate resistance	6300 ohm	—
Mutual conductance	4000 μ S	—
Amplification factor	23	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	2500 V	—
Maximum plate dissipation	250 W	—
Maximum direct plate current	275 mA	—



SOURCE DATA APPENDIX

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/Inverse Voltage	2500 V	Source rating
Maximum Plate Dissipation	250 W	—

TUBE TINKER

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