



ELECTRONIC TUBE REFERENCE

211

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power filamentary triode widely specified for RF amplifier and oscillator duty and also usable as an audio-frequency power amplifier or modulator. Manufacturer data include high-voltage plate operation and substantial output power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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	
PLATE RESISTANCE	3400 Ω
TRANSCONDUCTANCE	0.00353 S
AMPLIFICATION FACTOR	12
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM CATHODE CURRENT	175 mA
<i>Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.</i>	

The RCA 211 is a thoriated-tungsten transmitting power triode for af/rf service. 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
filament type with a maximum plate dissipation of	100 W	filament type with a maximum plate dissipation of 100 watts for class C telegraph
operated at maximum rated conditions at frequencies as high as	15 MHz	operated at maximum rated conditions at frequencies as high as 15 megacycles.
D-C Plate Voltage	1250 V	D-C Plate Voltage - 1250 max. Volts
D-C Plate Current	150 mA	D-C Plate Current----- 150 max. Milliamperes
Plate Input	150 W	Plate Input --- 150 max. Watts
D-C Plate Voltage--- 1000	1250 V	D-C Plate Voltage--- 1000 1250 Volts
D-C Plate Current- 130	106 mA	D-C Plate Current- 130 106 Milliamperes
Driving Power (Approx.)t. 10	7.5 W	Driving Power (Approx.)t. 10 7.5 Watts
D-C Plate Voltage	1000 V	D-C Plate Voltage 1000 max. Volts
D-C Plate Current	175 mA	D-C Plate Current... 175 max. Milliamperes
D-C Grid Current	50 mA	D-C Grid Current..... 50 max. Milliamperes
D-C Plate Voltage..... 750	1000 V	D-C Plate Voltage..... 750 1000 Volts
Peak R-F Grid Voltage - 350	410 V	Peak R-F Grid Voltage - 350 410 Volts
D-C Plate Current..... 150	150 mA	D-C Plate Current..... 150 150 Milliamperes
Crrif Resistor 5710	7430 Ω	Crrif Resistor 5710 7430 Ohms
Plate Dissipation	100 W	Plate Dissipation .. . 100 max. Watts
D-C Plate Voltage. 750 1000	1250 V	D-C Plate Voltage. 750 1000 1250 Volts
D-C Grid Voltages .. -135 -175	-225 V	D-C Grid Voltages .. -135 -175 -225 Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak R-F Grid Voltage.... 275 315	375 V	Peak R-F Grid Voltage.... 275 315 375 Volts
D-C Plate Current .-. 150 150	150 mA	D-C Plate Current .-. 150 150 150 Milliamperes
Driving Power (Approx.) - -..... 5 6	7 W	Driving Power (Approx.) --..... 5 6 7 Watts
Power Output (Approx.) .-. 65 100	130 W	Power Output (Approx.) .-. 65 100 130 Watts
each stated value of grid voltage should be decreased by	7 V	each stated value of grid voltage should be decreased by 7 volts and the circuit returns made to the
For high-frequency operation above	15 MHz	For high-frequency operation above 15 megacycles,



SOURCE DATA APPENDIX

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	10 V	Nominal published value
Filament Current	3.85 A	Nominal published value
Maximum Operating Plate Voltage	1500 V	Class C oscillator / RF power-amplifier service where published
Maximum Plate Dissipation	100 W	Published maximum rating
Grid to Filament, mmf	7 pF	Published direct interelectrode capacitance
Plate to Filament, mmf	6 pF	Published direct interelectrode capacitance

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	3400 ohm	Published general characteristic
Mutual Conductance	3530 μS	Published general characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	12	Published general characteristic


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1940 Taylor Tubes

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1940 TAYLOR TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-grid capacitance	14 pF	—
Grid-to-filament capacitance	7 pF	—
Plate-to-filament capacitance	6 pF	—


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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	1250 V	—
Maximum plate dissipation	125 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate current	175 mA	—


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1950 General Electric Transmitting Types

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1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum full-rating frequency	15 MHz	—
Reduced-rating frequency	80 MHz	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Audio-frequency amplifier / modulator	—


SOURCE DATA APPENDIX

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1956 RCA Transmitting Tubes

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1956 RCA TRANSMITTING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate/Inverse Voltage	1250 V	Source rating
Maximum Plate Dissipation	100 W	—

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and their source documents.

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