



ELECTRONIC TUBE REFERENCE

802

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Versatile transmitting power pentode for AF modulation and RF amplification or oscillation to approximately 80 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.00225 S
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	10 W
<i>Published ratings and characteristics from source sheet.</i>	

The RCA 802 is a power pentode for AF amplification/modulation and RF amplification/oscillation, with full-input operation specified to 80 MHz.

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Plate Voltage- 400	500 V	D-C Plate Voltage- 400 500 Volts
D-C Screen Voltage - 150	200 V	D-C Screen Voltage - 150 200 Volts
Driving Power (Approx.) t ... 0.5	0.18 W	Driving Power (Approx.) t ... 0.5 0.18 Watt
D-C Plate Current	30 mA	D-C Plate Current- 30 max. Milliamperes
D-C Grid Current	7.5 mA	D-C Grid Current - 7.5 max. Milliamperes
Plate Input	15 W	Plate Input- 15 max. Watts
Screen Input	6 W	Screen Input - 6 max. Watts
Peak R-F Grid Voltage - 125 125	125 V	Peak R-F Grid Voltage - 125 125 125 Volts
D-C Plate Current . 18 20	22 mA	D-C Plate Current . 18 20 22 Milliamperes
Screen Resistor .. 9000 10700	10700 Ω	Screen Resistor .. 9000 10700 10700 Ohms
Plate Input	15 W	Plate Input. 15 max. Watts
Suppressor Input	2 W	Suppressor Input 2 max. Watts
D-C Screen Voltage 150	200 V	D-C Screen Voltage 150 200 Volts
D-C Plate Voltage _ 400 max	400 V	D-C Plate Voltage _ 400 max. 400 max. Volts
D-C Screen Voltage*** _ 200 max	200 V	D-C Screen Voltage*** _ 200 max. 200 max. Volts
D-C Grid Voltage (Grid No. 1)--- -200 max	-200 V	D-C Grid Voltage (Grid No. 1)--- -200 max. -200 max. Volts
D-C Plate Current _ 40 max	40 mA	D-C Plate Current _ 40 max. 40 max. Milliamperes
D-C Grid Current_____ 7.5 max	7.5 mA	D-C Grid Current_____ 7.5 max. 7.5 max. Milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Input_ 16 max	16 W	Plate Input_ 16 max. 16 max. Watts
Screen Input___ 4 max	6 W	Screen Input___ 4 max. 6 max. Watts
Plate Dissipation_ 6.7 max	6.7 W	Plate Dissipation_ 6.7 max. 6.7 max. Watts
D-C Screen Current . 17	21 mA	D-C Screen Current . 17 21 Milliamperes
D'C Grid Current (Approx.) . 1.5	6 mA	D'C Grid Current (Approx.) . 1.5 6 Milliamperes
Grid Resistor.. 26700	20000 Ω	Grid Resistor.. 26700 20000 Ohms
D-C Plate Voltage . 500 max	500 V	D-C Plate Voltage . 500 max. 500 max. Volts
D-C Screen Voltage*** . 250 max	200 V	D-C Screen Voltage*** . 250 max. 200 max. Volts
D-C Grid Volt. (Grid No. 1) -200 max	-200 V	D-C Grid Volt. (Grid No. 1) -200 max. -200 max. Volts
D-C Plate Current . 60 max	60 mA	D-C Plate Current . 60 max. 60 max Milliamperes
D-C Grid Current.-. 7.5 max	7.5 mA	D-C Grid Current.-. 7.5 max. 7.5 max. Milliamperes
Plate Input .. 25 max	25 W	Plate Input .. 25 max. 25 max. Watts
Screen Input .-. 6 max	6 W	Screen Input .-. 6 max. 6 max. Watts
Plate Dissipation ... 10 max	10 W	Plate Dissipation ... 10 max. 10 max. Watts
D-C Grid Voltage ... --- -100 -100 -60	-60 V	D-C Grid Voltage ... --- -100 -100 -60 -60 Volts
D-C Plate Current... 45 45 45	45 mA	D-C Plate Current... 45 45 45 45 Milliamperes
D-C Screen Current - 22 12 15	15 mA	D-C Screen Current - 22 12 15 15 Milliamperes
D-C Grid Current (Approx.) 6 2 7	6 mA	D-C Grid Current (Approx.) 6 2 7 6 Milliamperes
Driving Power (Approx.). 0.9 0.25 0.7	0.5 W	Driving Power (Approx.). 0.9 0.25 0.7 0.5 Watt
For high-frequency operation above	30 MHz	For high-frequency operation above 30 megacycles, see page 144.



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 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	RF amplifier / frequency multiplier / oscillator / modulator	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Full-Input Frequency	80 MHz	—
Maximum Reduced-Input Frequency	100 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage Maximum	600 V	ICAS

TUBE TINKER

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