



ELECTRONIC TUBE REFERENCE

502R

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power triode documented for amplifier or control service, with manufacturer operating data emphasizing useful power output rather than small-signal voltage amplification. Its available documentation does not justify a narrower specialized functional category.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 24 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	1500 W
<i>Forced-air-cooled version of the Amperex 502 power triode.</i>	

502R is a Triode device. Forced-air-cooled version of the Amperex 502 power triode.



SOURCE OPERATING CONDITIONS

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
Plate voltage	3500 V	RF Amplifier or Oscillator; Class C; Telegraphy
Plate current	860 mA	RF Amplifier or Oscillator; Class C; Telegraphy
RF output power	2175 W	RF Amplifier or Oscillator; Class C; Telegraphy
Grid voltage	-450 V	RF Amplifier or Oscillator; Class C; Telegraphy
Grid current	150 mA	RF Amplifier or Oscillator; Class C; Telegraphy
Maximum frequency at full input rating	150 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	—
Grid-to-filament/cathode capacitance	14 pF	—
Plate-to-filament/cathode capacitance	1.3 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
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Plate current	860 mA	RFAmplifierOrOscillator; ClassC; Telegraphy
RF output power	2175 W	RFAmplifierOrOscillator; ClassC; Telegraphy
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TUBE TINKER

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