



ELECTRONIC TUBE REFERENCE

504R

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	1000 W
Forced-air-cooled triode similar to 501R, interchangeable with 7C26 with minor circuit changes.	

504R is a Triode device. Forced-air-cooled triode similar to 501R, interchangeable with 7C26 with minor circuit changes.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	-750 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	3500 V	RFAmplifierOrOscillator; ClassC; Telegraphy
Plate current	860 mA	RFAmplifierOrOscillator; ClassC; Telegraphy
RF output power	2175 W	RFAmplifierOrOscillator; ClassC; Telegraphy
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