



ELECTRONIC TUBE REFERENCE

6246

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled very-high-power triode, co-designated 508, for industrial RF heating and AM transmitter service. Rated for 25 kW plate dissipation and 15 kV plate voltage for major industrial and broadcast installations.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	30 V / 80 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.017 S
AMPLIFICATION FACTOR	28
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	25000 W
<i>Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.</i>	

6246 is a Triode device in the supplied Amperex literature. Co-designation of 508; water-cooled very-high-power triode for RF heating and AM transmitter service. Published ratings, operating points, capacitances, pulse data, or industrial service limits were preserved in the technical output as applicable.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	40 MHz	—
Maximum plate voltage, Class B AF	15000 V	ClassB
Maximum signal plate input, two tubes	80 kW	ClassB,TwoTubes
Maximum signal power output, two tubes	61.5 kW	ClassB,TwoTubes



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	15000 V	RFamplifierOrOscillator; ClassC; Telegraphy
Plate current	3.75 A	RFamplifierOrOscillator; ClassC; Telegraphy
RF output power	40000 W	RFamplifierOrOscillator; ClassC; Telegraphy
Grid voltage	-900 V	RFamplifierOrOscillator; ClassC; Telegraphy
Grid current	420 mA	RFamplifierOrOscillator; ClassC; Telegraphy

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full input rating	40 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	17 pF	—
Grid-to-filament/cathode capacitance	26 pF	—
Plate-to-filament/cathode capacitance	2.5 pF	—