

ELECTRONIC TUBE REFERENCE

ZB3200

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled Amperex high-power triode intended principally for broadcast service. Approximately 2.5 kW plate dissipation and 10 kV capability support several kilowatts of zero-bias RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	21.5 V / 40.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	85
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	2500 W
Published general characteristics and maximum ratings promoted.	

ZB3200 is a Triode device in the supplied Amperex literature. Forced-air-cooled Amperex triode used principally in broadcasting; source states about 5.8 kW output at 10 MHz with zero-bias capability.



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	Direct interelectrode capacitance
Grid-to-filament capacitance	15 pF	Direct interelectrode capacitance
Plate-to-filament capacitance	3 pF	Direct interelectrode capacitance
Filament voltage	21.5 V	—
Filament current	40.5 A	—



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	8000 V	RFPowerAmplifier;ClassC
Plate current	960 mA	RFPowerAmplifier;ClassC
Power output	5800 W	RFPowerAmplifier;ClassC
Control-grid voltage	-400 V	RFPowerAmplifier;ClassC
Grid current	150 mA	RFPowerAmplifier;ClassC
Maximum frequency at full input	10 MHz	RFPowerAmplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2500 W	RFPowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	75	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	Section1
Grid-to-filament capacitance	13 pF	Section1
Plate-to-filament capacitance	2 pF	Section1



SOURCE DATA APPENDIX

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
Plate voltage	8000 V	RFAmplifierOrOscillator
Plate current	960 mA	RFAmplifierOrOscillator
RF output power	5800 W	RFAmplifierOrOscillator
Grid voltage	-400 V	RFAmplifierOrOscillator
Grid current	150 mA	RFAmplifierOrOscillator
Maximum frequency at full input rating	10 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	—
Grid-to-filament capacitance	13 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-filament capacitance	2 pF	—