



ELECTRONIC TUBE REFERENCE

3500Z

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Eimac 3-500Z compact high-mu power triode for zero-bias Class AB2 audio and RF linear amplification as well as RF power service. Its roughly 500 W plate dissipation and high amplification factor suit high-power linear amplifier stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	160
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM GRID DISSIPATION	20 W

The Eimac 3-500Z is a compact power triode intended for zero-bias class-AB2 audio- and radio-frequency linear-amplifier service and RF power applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	400 mA	Class-B
Maximum-Signal Plate Output Power	1420 W	ClassB; TwoTubes; 3000V Plate
Plate Output Power	850 W	ClassC; 3500V Plate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	110 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Filament Capacitance	7.4 pF	—
Grid-Plate Capacitance	4.1 pF	—
Plate-Filament Capacitance	0.07 pF	—