

ELECTRONIC TUBE REFERENCE

3X2500F3

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled external-anode medium-mu power triode for amplifier, oscillator, and modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 53 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	2500 W
MAXIMUM GRID DISSIPATION	150 W
MAXIMUM CATHODE CURRENT	2.5 A
Highest published CW/service maximums promoted; amplification factor is published as a range and retained in parameters.	

The EIMAC 3X2500F3 is a forced-air-cooled external-anode medium-mu power triode for amplifier, oscillator, and modulator service.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	30 MHz	—
Filament/Heater Current	49 A–54 A	—
Amplification Factor	19–26	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	2.5 A	Class-C FM/Telegraphy and Class-B maximum
Typical DC Plate Voltage	4000 V	Class-C FM/Telegraphy
Typical Plate Output Power	7500 W	Class-C FM/Telegraphy
FCC Carrier Power, Plate Modulated	5000 W	Published FCC rating
FCC Carrier Power, Grid-Modulated or Linear	1250 W	Published FCC rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	16.8–23.2 pF	Published min-max
Grid-Filament Capacitance	29.2–40.2 pF	Published min-max
Plate-Filament Capacitance	0.6–1.2 pF	Published min-max

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	20 pF	—
Grid-Filament Capacitance	31 pF	—
Plate-Filament Capacitance	1.5 pF	—
Transconductance	0.02 A/V	—
Frequency Maximum	30 MHz	—
Typical RF Output Power	7500 W	—
FCC Plate-Modulated Carrier Rating	5000 W	—
FCC Linear Carrier Rating	1250 W	—