



ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

3CX2500F3

1 SECTION
CONSTRUCTION
TRIODE

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

Forced-air-cooled medium-mu power triode for RF and audio-frequency amplifier or modulator service. Its 2.5 kW plate-dissipation rating and several-kilovolt operation suit substantial transmitting and industrial power stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 50.5 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 applicable published rating promoted; service-specific CW, RF, audio, industrial, and pulse limits retained as parameter rows.	

Forced-air-cooled medium-mu power triode for RF and audio-frequency amplifier/modulator service.



SOURCE OPERATING CONDITIONS

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
Amplification Factor	19–26	—
Frequency for Maximum Ratings	30 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	2.5 A	ClassB



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	7.5 V	—
Heater/filament current	50.5 A	—
Amplification factor	20	—
Transconductance	20000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	29.2 pF	—
Output/plate-cathode capacitance	40.2 pF	—
Feedback/grid-plate capacitance	1.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	6000 V	—
Maximum plate dissipation	2500 W	—
Maximum grid dissipation	150 W	—
Maximum plate/cathode current	2.5 A	—
Frequency for maximum ratings	30 MHz	—
Typical RF plate voltage	6000 V	ClassC
Typical RF plate current	2.08 A	ClassC
Typical RF output power	10000 W	ClassC
AF maximum-signal output, two tubes	13000 W	ClassB;TwoTubes

TUBE TINKER

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