ELECTRONIC TUBE REFERENCE

8251

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

All-ceramic-and-metal medium-mu transmitting triode rated in the 2.5-kW power class.

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

Alias record duplicated from the same published 3X2500F3 source.

The EIMAC 3CX2500F3 is an all-ceramic-and-metal medium-mu forced-air-cooled external-anode transmitting triode for amplifier, oscillator and modulator service below 30 MHz.

SOURCE OPERATING CONDITIONS

1962 Eimac

SOURCE PDF

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 DATA APPENDIX

SOURCE OPERATING CONDITIONS

1965 Eimac Tube Manual

SOURCE PDF

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**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FCC Plate-Modulated Carrier Rating	**5000 W**	—
FCC Linear Carrier Rating	**1250 W**	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker