



ELECTRONIC TUBE REFERENCE

8243

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled Eimac medium-mu power triode for amplifier, oscillator, modulator, and RF power service, with flexible grid and filament leads.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 51.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM GRID DISSIPATION	150 W
MAXIMUM CATHODE CURRENT	2.5 A
<i>Promoted from printed general-characteristics and maximum-ratings blocks.</i>	

The Eimac 8243/3CW5000F3 is a medium-mu water-cooled power triode for amplifier, oscillator, modulator, and RF power service, with flexible grid and filament leads.



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
Amplification factor	20	—
Transconductance	20000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Representative maximum-signal plate current	2.5 A	—



SOURCE OPERATING CONDITIONS

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	51.5 A	—
Amplification factor	20	—
Transconductance	20000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	35 pF	—
Output/plate-cathode capacitance	0.9 pF	—
Feedback/grid-plate capacitance	20 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Maximum grid dissipation	150 W	—
Maximum plate/cathode current	2.5 A	—
Frequency for maximum ratings	30 MHz	—
Typical RF plate voltage	4000 V	ClassC
Typical RF output power	7500 W	ClassC
Typical RF output power	10000 W	PlateVoltage=5000V



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1975 Eimac Tube Manual

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

1975 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	22	—
Transconductance	20000 uS	—
Heater/filament voltage	7.5 V	—
Heater/filament current	50 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Maximum grid dissipation	150 W	—
Maximum cathode/plate current	3.2 A	—
Frequency for maximum ratings	30 MHz	—
Typical RF plate voltage	6000 V	ClassC
Typical AF max-signal plate current	3 A	ClassB

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	35–35 pF	—
Output/plate-filament capacitance	0.9–0.9 pF	—
Feedback/grid-plate capacitance	20–20 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Water and forced air	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1976 Eimac Tube Manual

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

1976 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	22	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	20000 μ S	—
Heater/filament voltage	7.5 V	—
Heater/filament current	50 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Maximum grid dissipation	150 W	—
Maximum cathode/plate current	3.2 A	—
Frequency for maximum ratings	30 MHz	—
Typical RF plate voltage	6000 V	ClassC
Typical AF max-signal plate current	3 A	ClassB

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	35–35 pF	—
Output/plate-filament capacitance	0.9–0.9 pF	—
Feedback/grid-plate capacitance	20–20 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Water and forced air	—

TUBE TINKER

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