



ELECTRONIC TUBE REFERENCE

880

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled high-power transmitting triode widely used in broadcasting and industrial RF heating. Published Class C operation provides approximately 40 kW RF output from a 10 kV plate supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 315 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	7 A
Maximum ratings and general characteristics promoted from the printed service tables.	

Water-cooled high-power transmitting triode widely used in broadcasting stations and RF heating.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	15000 V	—
Maximum Plate Dissipation	15000 W	—
Maximum Cathode Current	7 A	—
Maximum Signal Power Output	46 kW	AudioFrequency,ClassB



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	10000 V	RFPowerAmplifier;ClassC
Plate current	6 A	RFPowerAmplifier;ClassC
Power output	40000 W	RFPowerAmplifier;ClassC
Control-grid voltage	-1200 V	RFPowerAmplifier;ClassC
Grid current	800 mA	RFPowerAmplifier;ClassC
Maximum frequency at full input	25 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	26 pF	Section1
Grid-to-filament capacitance	29 pF	Section1
Plate-to-filament capacitance	2.6 pF	Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	10000 V	RFPowerAmplifier
Plate current	6 A	RFPowerAmplifier
Power output	40000 W	RFPowerAmplifier
Control-grid voltage	-1200 V	RFPowerAmplifier
Grid current	800 mA	RFPowerAmplifier
Maximum frequency at full input	25 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	26 pF	Section1
Grid-to-filament capacitance	29 pF	Section1
Plate-to-filament capacitance	2.6 pF	Section1


SOURCE DATA APPENDIX

1971 Machlette Laboratories

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1971 MACHLETTE LABORATORIES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	12500 V	—
Maximum plate dissipation	20000 W	—
Maximum plate/cathode current	7 A	—

TUBE TINKER

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