



ELECTRONIC TUBE REFERENCE

298B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled high-power Western Electric transmitting-triode variant for substantial RF power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	27 V / 225 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	100000 W
<i>Promoted fields populated from explicitly published ratings/characteristics; service-specific data retained as parameters.</i>	

Water-cooled high-power transmitting triode variant.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	27 V	—
HeaterOrFilamentCurrent	225 A	—



SOURCE OPERATING CONDITIONS

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
and [1]	11 A	and 11 amperes apply at frequencies up to 4 mc/sec; opera- are exhausted by a straight-line, high-voltage process assuring
and [2]	4 A	and 11 amperes apply at frequencies up to 4 mc/sec; opera- are exhausted by a straight-line, high-voltage process assuring
tion at	20 mA	tion at 20 mc/sec is permissible with plate voltage reduced the same high standards as characterize the Machlett line of
to	12 kV	to 12 kVdc. high- and super-voltage x-ray tubes.
Filament Voltage [1]	27	Filament Voltage 27 27 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage [2]	27	Filament Voltage 27 27 volts
Filament Current at [1]	27 V	Filament Current at 27 volts 225 225 amperes
Filament Current at [2]	225 V	Filament Current at 27 volts 225 225 amperes
Filament Current at [3]	225 V	Filament Current at 27 volts 225 225 amperes
Filament Starting Current [1]	340	Filament Starting Current 340 340 ampercs
Filament Starting Current [2]	340	Filament Starting Current 340 340 ampercs
Filament Cold Resistance [1]	96 ohm	Filament Cold Resistance 0096 .0096 ohms
Filament Cold Resistance [2]	96 ohm	Filament Cold Resistance 0096 .0096 ohms
Amplification Facror [1]	32	Amplification Facror ... 32 57.5
Amplification Facror [2]	57.5	Amplification Facror ... 32 57.5
Grid-Plate Transconductance [1]	22000 uS	Grid-Plate Transconductance 22000 20000 uMhos
Grid-Plate Transconductance [2]	20000 uS	Grid-Plate Transconductance 22000 20000 uMhos
Direct Plate Voltage ..o	20000 V	Direct Plate Voltage ..o . 20000 volts
Plate DissiPation i	100000	Plate DissiPation i 100000 wates

TUBE TINKER

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and their source documents.

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