



ELECTRONIC TUBE REFERENCE

212D

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Large transmitting power triode intended for RF amplifier and oscillator service, with manufacturer data emphasizing high plate voltage, substantial dissipation, and power output. It also supports power-frequency applications where documented.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	14 V / 6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	275 W
MAXIMUM CATHODE CURRENT	300 mA
<i>Promoted fields mapped from published ratings/characteristics; additional published values preserved in parameter table.</i>	

Air-cooled general-purpose filamentary triode for audio-frequency power amplifier and modulator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 200s

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

2026 WESTERN ELECTRIC 200S

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	14 Volt	Filament Voltage 14 Volts A. C.
Nominal Filament Current	6 Amperes	Nominal Filament Current 6 Amperes
Average A m p l i f i c a t i o n Factor	16	Average A m p l i f i c a t i o n Factor 16
Average Plate Resistance	2000 Ohms	Average Plate Resistance 2000 Ohms
Average Mutual Conductance	8000 Micromhos	Average Mutual Conductance 8000 Micromhos
With a plate voltage of	1500 volt	With a plate voltage of 1500 volts grid potential at —60 volts and
a filament voltage of	14 volt	a filament voltage of 14, the plate current will be as follows:
FILAMENT VOLTAGE,EA«	14 VOLT	FILAMENT VOLTAGE,EA« 14
Normal fi l a m e n t current	6 amperes	Normal fi l a m e n t current 6.0db0.3 amperes
Normal fi l a m e n t voltage	14 volt	Normal fi l a m e n t voltage 14 volts
Normal plate current for plate voltage	1500 volt	Normal plate current for plate voltage 1500 volts and grid voltage—60 volts... 130 milliamperes
Normal plate voltage	1000 volt	Normal plate voltage 1000 to 1500 volts
Normal grid voltage	-30 volt	Normal grid voltage —30 to —80 volts
Normal plate to filament impedance under conditions: plate voltage	1500 volt	Normal plate to filament impedance under conditions: plate voltage 1500
volts, grid voltage	60 volts	volts, grid voltage—60 volts and plate current 130 milliamperes 2000 ohms
Output as unmodulated oscillator	250 watts	Output as unmodulated oscillator 250 watts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
With a plate voltage at	1500 volt	With a plate voltage at 1500 volts, the grid potential at —60 volts and the filament voltage
should be kept as low as possible to secure the desired output and should not exceed	14 volts	should be kept as low as possible to secure the desired output and should not exceed 14 volts,
since an increase of	10 volt	since an increase of 10% in the voltage may shorten the life by as much as 50%.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	2000 Volt	Maximum Plate Voltage 2000 Volts
Maximum Plate Current	300 Ampere	Maximum Plate Current . 300 Ampere
Maximum safe plate voltage	2000 volt	Maximum safe plate voltage 2000 volts
Maximum safe intermittent output	250 watts	Maximum safe intermittent output 250 watts
Maximum safe continuous output	200 watts	Maximum safe continuous output 200 watts

TUBE TINKER

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