



ELECTRONIC TUBE REFERENCE

205E

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Filamentary power triode developed for power-amplifier applications, with operating information emphasizing output service and substantial plate loading. Its documented role is best understood as a general power triode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4.5 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	4000 Ω
AMPLIFICATION FACTOR	7.3
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Promoted fields mapped from published ratings/characteristics; additional published values preserved in parameter table.</i>	

Transmitting/power triode for RF amplification, oscillation, modulation, and audio output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1933 Western Electric Tubes

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

1933 WESTERN ELECTRIC TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-filament capacitance	3 pF	Published direct interelectrode capacitance
Grid-filament capacitance	2 pF	Published direct interelectrode capacitance



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	4.5 Volt	Filament Voltage 4.5 Volts, AC or DC
Average A m p l i f i c a t i o n Factor	7.3	Average A m p l i f i c a t i o n Factor 7.3
voltage of	375 volt	voltage of 375 volts and a total plate current of approximately 42 milliamperes, two No. 205E tubes will give 2.4
watts output with a total harmonic content of the order of	1 watts	watts output with a total harmonic content of the order of 1.0 per cent.
Peak Power Output	12 Watts	Peak Power Output 12 Watts
The No	205	The No. 205E Tube will operate satisfactorily at or above 30,000 kilocycles if the radio

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Audio-frequency amplifier or modulator where power outputs of approximately	1 watt	Audio-frequency amplifier or modulator where power outputs of approximately 1 watt or less
Filament voltage	4.5 volt	Filament voltage 4.5 volts, a.c. or d.c.
Nominal filament current	1.6 amperes	Nominal filament current 1.6 amperes
Microphonic Noise—With a plate voltage of	350 volt	Microphonic Noise—With a plate voltage of 350 volts, a grid bias of —22.5 volts, and a load
resistance of	100000 ohms	resistance of 100,000. ohms, the mean microphonic noise output level of 205E tube measured
♦Carrier conditions for use with modulation factors up to	1	♦Carrier conditions for use with modulation factors up to 1.0.
the area, ABCD, in Figure	3	the area, ABCD, in Figure 3. Amplification factor, plate resistance, transconductance, and
If the	205 megacycles	If the 205E tube is to be used at frequencies higher than 15 megacycles, the plate voltage and
FILAMENT VOLTAGE =	4.5 VOLT	FILAMENT VOLTAGE = 4.5 VOLTS DC.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 Volt	Maximum Plate Voltage 400 Volts
Maximum Plate Current	50 Milliamperes	Maximum Plate Current 50 Milliamperes
Maximum Plate Dissipation	14 Watts	Maximum Plate Dissipation 14 Watts
Maximum DC Plate Current	50 Milliamperes	Maximum DC Plate Current 50 Milliamperes
Maximum Plate Dissipation	14 Watt	Maximum Plate Dissipation 14 Watt's
Maximum Non-modulated DC Plate Voltage	400 Volt	Maximum Non-modulated DC Plate Voltage 400 Volts
Maximum Modulated DC Plate Voltage	350 Volt	Maximum Modulated DC Plate Voltage 350 Volts
Maximum direct plate voltage	400 volt	Maximum direct plate voltage 400 4 0 0 400 350 volts
Maximum direct plate current	50 milliamperes	Maximum direct plate current 50 35 50 40 milliamperes
Maximum plate dissipation	14 watts	Maximum plate dissipation 14 14 14 10 watts
Maximum direct grid current	10 milliamperes	Maximum direct grid current 10 10 10 milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency of	30 megacycles	frequency of 30 megacycles, the maximum ratings should be as follows:
Maximum plate voltage	800 volt	Maximum plate voltage 800 volts
Maximum plate dissipation	10 watts	Maximum plate dissipation 10 watts
Maximum r-f grid current	3 amperes	Maximum r-f grid current 3 amperes

TUBE TINKER

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