



ELECTRONIC TUBE REFERENCE

205F

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power-output triode intended for amplifier service, using a directly heated filament and operating conditions suited to appreciable audio-frequency output. The documentation places it in power rather than small-signal triode service.

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	3700 Ω
TRANSCONDUCTANCE	0.00195 S
AMPLIFICATION FACTOR	7.2
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	12.5 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Promoted fields mapped from published ratings/characteristics; additional published values preserved in parameter table.</i>	

The Western Electric 205F is a triode listed in the supplied catalog table.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 V	Catalog-table value



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
Plate Current) Eb =	350 volts	Plate Current) Eb = 350 volts; 35 milliamperes
Power Output I Ec =	-22.5 volts	Power Output I Ec = -22.5 volts 880 milliwatts
ii voltage, A-C or D-C	4.5 volt	...ii voltage, A-C or D-C . 4.5 volts
Filament Current	1.6 amperes	Filament Current 1.6 amperes
Output	2.2 uuf	Output 2.2 uuf
Plate Voltage	360 Volt	Plate Voltage 360 volts
Plate Current	50 milliamperes	Plate Current . 50 milliamperes
Plate Dissipation	12.5 watts	Plate Dissipation 12.5 watts
Filament Voltage, A-C	4.5 Volt	Filament Voltage, A-C 4.5 4.5 4 S 4.5 v o l t s
Plate Voltage	250 Volt	Plate Voltage 250 300 350 350 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage*	-2 Volt	Grid Voltage* - 2 2 - 1 8 -22.5 - 2 2 . 5 volts
Zero Signal Plate Current	11 milliamperes	Zero Signal Plate Current 11 . 5 30 35 35 milliamperes
Plate Resistance	5300 ohms	Plate Resistance 5300 3800 3700 3700 ohms
Amplification Factor	7.2	Amplification Factor 7.2 7.2 7.2 7.2
Total Harmonic Distortion	4.6	Total Harmonic Distortion 4.6 1.6 2.8 1.4 p e r c e n t
if the grid voltage, measured from the negative filament, is decreased by	23 volt	if the grid voltage, measured from the negative filament, is decreased by 23 volts.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Signal Plate Current	12 milliamperes	Maximum Signal Plate Current . 12 30.5 36 36 milliamperes
Maximum Signal Power Output	550 watts	Maximum Signal Power Output . 550 450 880 760 milliwatts