

ELECTRONIC TUBE REFERENCE

349A

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Western Electric heater-cathode power pentode with approximately 3.5 W Class-A output at documented operating conditions. Designed for general low-frequency power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	80000 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	336
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	9.4 W
MAXIMUM SCREEN DISSIPATION	3.1 W
MAXIMUM CATHODE CURRENT	50 mA
Promoted from published limiting conditions and representative published characteristics.	

The Western Electric 349A is a heater-cathode power pentode with 275 V maximum plate and screen ratings and about 3.5 W Class A output.

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 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	250 V	—
Typical Plate Current	30 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Power Output	3.5 W	ClassA

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to plate	0.65 pF	—
Control grid to heater/cathode/screen grid	12 pF	—
Plate to heater/cathode/screen grid	9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct screen-grid current	10 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	4.7 W	PlateVoltage=250V;ScreenGridVoltage=250V;ControlGridVoltage=-14V;LoadResistance=4000ohm

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