



ELECTRONIC TUBE REFERENCE

420A

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Stable long-life double triode with separate cathodes and center-tapped heater, developed for precision DC-amplifier service where dependable operating characteristics are important.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 360 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	140000 Ω
TRANSCONDUCTANCE	0.0005 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	0.9 W
<i>Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows. Representative row for repeated identical physical sections.</i>	

SECTION2 Triode	
PLATE RESISTANCE	140000 Ω
TRANSCONDUCTANCE	0.0005 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	0.9 W
<i>Second physical triode restored under current one-row-per-physical-section policy; identical section.</i>	

Double-triode amplifier tube with separate indirectly heated cathodes, center-tapped heater, high stability, and long-life design for d-c amplifiers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (each section) \ $E_h =$	110 volts	Plate Current (each section) \ $E_h = 110$ volts; $E_p = -0.6$ volt 10.15 milliampere
Transconductance (each section)/ I	500 micromhos	Transconductance (each section)/ I 500 micromhos
Heater-Cathode Voltage	70 volts	Heater-Cathode Voltage 70 volts
Cathode Bias Resistor (Cathodes tied together)	150000 ohms	Cathode Bias Resistor (Cathodes tied together) 150,000 ohms
Plate- Current	0.15 milliampere	Plate- Current 0.15 milliampere
Load Resistance	0.9 megohm	Load Resistance 0.9 megohm
Transconductance	500 micromhos	Transconductance 500 micromhos
equivalent to a	0.26 volt	equivalent to a 0.26 volt change in the output voltage.)

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	0.9 watt	Plate Dissipation 0.9 watt

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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