



ELECTRONIC TUBE REFERENCE

403A

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Western Electric miniature pentode designed for high- and ultra-high-frequency amplification, combining useful gain with compact low-capacitance construction.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 175 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	300000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	140 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	18 mA
<i>Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows.</i>	

7-pin miniature pentode for amplifier circuits at high and ultra-high frequencies.

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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current . . E, = E., =	120 volts	Plate Current . . E, = E., = 120 volts; . 7.5 milliamperes
Transconductance . { Cathode-Bias Resistor =	200 micromhos	Transconductance . { Cathode-Bias Resistor = 200 chms } . . 5000 micromhos
Heater Voltage, A-CorD-C	6.3 volts	Heater Voltage, A-CorD-C. 6.3 volts
Heater Current	175 milliamperes	Heater Current 175 milliamperes
Plate Voltage	180 volts	Plate Voltage 180 volts
Screen Grid Voltage	140 volts	Screen Grid Voltage 140 volts
Cathode Current	18 milliamperes	Cathode Current 18 milliamperes
Bulb Temperature	120 centigrade	Bulb Temperature. 120 centigrade
Plate Voltage	120 volts	Plate Voltage 120 150 180 volts
Screen Grid Voltage	120 volts	Screen Grid Voltage 120 140 120 volts
Cathode-Bias Resistor	200 ohms	Cathode-Bias Resistor 200 330 200 ohms
Plate Current	75 milliamperes	PlateCurrent. 75 6.6 7.7 milliamperes
Screen Grid Current	25 milliamperes	Screen Grid Current. 25 2.1 24 milliamperes .
Plate Resistance	0.3 megohm	Plate Resistance 0.30 6.40 045 megohm
Transconductanee	5000 micromhos	Transconductanee 5000 4500 5100 micromhos

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current of	10 Microamperes	Plate Current of 10 Microamperes —6.8 —7.8 —06.9 volts
SCREEN GRID VOLTAGE=	120 VOLTS	SCREEN GRID VOLTAGE=120 VOLTS . SCREEN GRID VOLTAGE=120 VOLTS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	1.7 watts	Plate Dissipation 1.7 watts
Sereen Grid Dissipation	0.5 watt	Sereen Grid Dissipation 0.5 watt

TUBE TINKER

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