

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

414A

1 SECTION
CONSTRUCTION
PENTODE

Voltage - Pentode Sharp Cutoff (single) electronic tube

Western Electric miniature pentode for professional small-signal amplifier service in communications and related electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	350000 Ω
TRANSCONDUCTANCE	0.00275 S
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	140 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	0.5 W
Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows.	

Miniature pentode with an indirectly heated cathode.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-Grid Dissipation	0.5 watt	Screen-Grid Dissipation 0.5 watt

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2750 micromhos	Transconductance 2750 micromhos
Grid Voltage (approximate) for ID Microamperes Plate Current	-9.5 Microamperes	Grid Voltage (approximate) for ID Microamperes Plate Current -9.5 volts

TUBE TINKER

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