

ELECTRONIC TUBE REFERENCE

446A

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
VOLTAGEREGULATOR

Three-electrode inert-gas cold-cathode voltage regulator with starter electrode, designed for exceptionally stable regulation around 81 V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Voltage Regulator	
MAXIMUM CATHODE CURRENT	40 mA
REGULATOR VOLTAGE	81.2 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	40 mA
STARTING VOLTAGE	95 V
MAINTAINING VOLTAGE	81.2 V
Starter breakdown bogey 95 V; starter current 0.5–5 mA.	

The 446A is a three-electrode inert-gas-filled cold-cathode tube designed for voltage-regulator service, with exceptionally stable life characteristics; its third electrode is primarily a starting element.



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 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Breakdown Voltage	108 V	—
Anode Voltage Drop at 40 mA	80–82.5 V	—
Regulation 5–40 mA	—1 V	—
Starter Breakdown Voltage	90–105 V	—
Starter Voltage Drop at 5 mA	81–86 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starter Current	0.5 mA–5 mA	—

TUBE TINKER

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and their source documents.

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