



## ELECTRONIC TUBE REFERENCE

## 439A

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## COUNTERSELECTORSWITCH

Ten-stage cold-cathode gas-discharge stepping tube for continuous pulse counting and registration, providing both visual and electrical indication and supporting decade-chain operation.

## GENERAL CHARACTERISTICS

|                     |                        |                      |               |
|---------------------|------------------------|----------------------|---------------|
| BASE DESIGNATION    | —                      | BASE PINS            | 19            |
| NOMINAL HEATER      | — / —                  | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect; cold cathode | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes      | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                        |       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------|
| SECTION1 CounterSelectorSwitch                                                                                                         |       |
| MAXIMUM CATHODE CURRENT                                                                                                                | 10 mA |
| STARTING VOLTAGE                                                                                                                       | 300 V |
| MAINTAINING VOLTAGE                                                                                                                    | 110 V |
| <i>Multi-cathode stepping/counting discharge structure represented as Other section; key anode/cathode discharge ratings promoted.</i> |       |

Western Electric 439A is a ten-stage cold-cathode gas-discharge stepping tube for continuous pulse counting or registration, with visual and electrical registration and decade-chain operation.

## 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 · CounterSelectorSwitch

| OTHER                           |                 |                  |
|---------------------------------|-----------------|------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum average cathode current | 3 mA            | —                |
| Minimum average cathode current | 1 mA            | —                |
| Maximum pulse rate              | 1000 pulse/s    | —                |

| CHARACTERISTIC                                 |                 |                  |
|------------------------------------------------|-----------------|------------------|
| PARAMETER                                      | PUBLISHED VALUE | CONDITION / NOTE |
| Normal-cathode anode breakdown voltage maximum | 275 V           | —                |
| Output-cathode anode breakdown voltage maximum | 300 V           | —                |

## TUBE TINKER

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and their source documents.

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