ELECTRONIC TUBE REFERENCE

# 8073

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**FISSIONIONIZATIONDETECTOR**

Dual-range thermal-neutron detector usable either as a fission counter or as an ionization chamber. This dual operating principle extends useful neutron measurement across counting and current-measurement regimes.

## General characteristics

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

## Section ratings

**SECTION1** FissionIonizationDetector

| | |
|---|---|
| **MAXIMUM PLATE VOLTAGE** | 1000 V |

*Published electrical limits and characteristics promoted from the approved source; non-schema quantities are retained in TUBE_SECTION_PARAMETER.*

Dual-range thermal-neutron detector usable as a fission counter or ionization chamber.

SOURCE OPERATING CONDITIONS

# 1947 Westinghouse

SOURCE PDF

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

1947 WESTINGHOUSE

## Section 1 · FissionIonizationDetector

**OTHER**

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| MaximumPlateOrOperatingVoltage | **1000 V** | — |
| TypicalCounterOperatingVoltage | **300 V** | — |
| ThermalNeutronFluxMaximum | **31000000000 nv** | — |

**CHARACTERISTIC**

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| CounterSensitivity | **0.7 count/s per nv** | — |
| IonizationChamberNeutronSensitivity | **1.4e-13 A/nv** | — |

TUBE TINKER

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker