



ELECTRONIC TUBE REFERENCE

6376A

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

FISSIONIONIZATIONDETECTOR

Dual-range thermal-neutron detector designed to operate either as a fission counter or as an ionization chamber. This dual operating mode permits neutron measurements over a wider useful flux range than a single-mode detector.

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	300 V
Published electrical limits and characteristics promoted from the approved source. Values without an applicable promoted column are retained in TUBE_SECTION_PARAMETER.	

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



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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	300 V	—
TypicalCounterOperatingVoltage	300 V	—
TotalIntegratedNeutronFluxMaximum	200000000000000000 n/cm2	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CounterNeutronSensitivity	0.7 count/n/cm2	—
IonizationChamberNeutronSensitivity	1.4e-12 A/(n/cm2/s)	—

TUBE TINKER

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and their source documents.

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