

ELECTRONIC TUBE REFERENCE

8137

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IONIZATIONCHAMBER

Uncompensated ionization chamber for thermal-neutron detection and reactor-control service. It converts neutron-induced ionization into a measurable current for continuous flux monitoring rather than discrete Geiger-style counting.

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 IonizationChamber	
MAXIMUM PLATE VOLTAGE	1000 V
Published electrical limits and characteristics promoted from the approved source; non-schema quantities are retained in TUBE_SECTION_PARAMETER.	

Uncompensated ionization chamber for thermal-neutron detection and reactor-control service.

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 · IonizationChamber

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumPlateOrOperatingVoltage	1000 V	—
OperatingVoltageRange	—	300 to 800 V
ThermalNeutronFluxMaximum	50000000000 nv	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ThermalNeutronSensitivity	2e-14 A/nv	—