

ELECTRONIC TUBE REFERENCE

6938

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PROPORTIONALCOUNTER

High-sensitivity BF3 proportional counter designed to measure low thermal-neutron flux. Its boron-containing gas provides efficient neutron conversion while proportional operation preserves pulse information for sensitive low-flux counting applications.

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 ProportionalCounter	
MAXIMUM PLATE VOLTAGE	2200 V
Published electrical limits and characteristics promoted from the approved source. Values without an applicable promoted column are retained in TUBE_SECTION_PARAMETER.	

High-sensitivity BF3 proportional counter for measurement of low thermal-neutron flux.



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 · ProportionalCounter

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumPlateOrOperatingVoltage	2200 V	—
OperatingVoltageApproximate	2200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NeutronSensitivity	55 count/s	Per unit isotropic thermal-neutron flux
NeutronFluxRange	—	0.025 to 2500

TUBE TINKER

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and their source documents.

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