

ELECTRONIC TUBE REFERENCE

7353

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
IONIZATIONCHAMBER

Electrically compensated boron-lined ionization chamber for thermal-neutron detection. Adjustable gamma compensation reduces unwanted gamma response, allowing more selective neutron-flux measurement in mixed radiation fields.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IonizationChamber
No fixed ratings recorded.
Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.

Electrically compensated boron-lined ionization chamber for thermal-neutron detection with adjustable gamma compensation.

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 · Ionization Chamber

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum thermal-neutron flux	1000000000000 n/cm ² /s	Published
Maximum interelectrode voltage	1500 V	Published
Operating voltage	300–800 V	Published
Maximum temperature	175 °F	Published

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Neutron sensitivity	4e-14 A per n/cm ² /s	Published

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