

ELECTRONIC TUBE REFERENCE

6941

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IONIZATIONCHAMBER

Uranium-235 ionization chamber designed for thermal-neutron flux measurement. Neutron-induced fission in the uranium-sensitive material produces ionization signals suitable for monitoring thermal-neutron intensity in nuclear instrumentation systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	0 V / 0 mA	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. Values without an applicable promoted column are retained in TUBE_SECTION_PARAMETER.	

Uranium-235 ionization chamber for thermal-neutron flux measurement; source also covers 6941.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NeutronSensitivity	2.6e-12 A per neutron/cm2/s	—
OperatingVoltageMinimum	200 V	—