ELECTRONIC TUBE REFERENCE

8214

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
IONIZATIONCHAMBER

Compensated ionization chamber for thermal-neutron detection in relatively high gamma-radiation fields. Its compensated current output supports reactor neutron-flux monitoring where gamma background would otherwise introduce significant measurement error.

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.

Compensated ionization chamber for thermal-neutron detection in relatively high gamma radiation fields.

SOURCE OPERATING CONDITIONS

1947 Westinghouse

SOURCE PDF

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	**500000000000 nv**	—

CHARACTERISTIC

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

Tube Tinker

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