

ELECTRONIC TUBE REFERENCE

5978

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IONIZATIONCHAMBER

High-pressure ionization chamber designed for gamma-radiation detection. Unlike Geiger-Müller counters, it measures radiation through ionization current rather than avalanche pulses, making it suitable for dose-rate and intensity measurement.

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	300 V

The 5978 is a high-pressure ion chamber for detecting gamma radiation, using a grounded guard ring and ceramic-to-metal seals.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Ionization Chamber

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
InterelectrodeCapacitance	6 pF	—
GammaSensitivity	1.3e-10 A/(R/h)	—
InsulatorResistanceAt25C	1000000000000000 ohm	—

TUBE TINKER

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