

ELECTRONIC TUBE REFERENCE

6307

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PROPORTIONALCOUNTER

Aluminum-bodied proportional counter designed specifically for thermal-neutron detection. Operating near 2 kV, it converts neutron interactions in its sensitive gas volume into proportional electrical pulses for neutron-flux 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 ProportionalCounter	
MAXIMUM PLATE VOLTAGE	2000 V
Published electrical limits and characteristics promoted from the approved source. Values without an applicable promoted column are retained in TUBE_SECTION_PARAMETER.	

Thermal-neutron proportional counter with an aluminum body, operating near 2 kV for neutron detection.

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	2000 V	—
Operating Voltage	2000 V	Approximate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NeutronSensitivity	4.5 count/s	Per unit isotropic thermal-neutron flux