

ELECTRONIC TUBE REFERENCE

90NB

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GEIGERMULLERCOUNTER

Neon-filled Geiger-Müller radiation counter for beta and gamma detection. It operates around 900 V and provides a long counting plateau for stable pulse-counting measurements.

GENERAL CHARACTERISTICS

BASE DESIGNATION	3PIN	BASE PINS	3
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 GeigerMullerCounter
No fixed ratings recorded. Promoted from source fields where the locked schema has a direct semantic match; remaining RF, rectifier, capacitance, thermal, and radiation-counter data are retained in TUBE_SECTION_PARAMETER.

Neon-filled Geiger-Müller radiation counter tube for beta and gamma detection, with a 900 V operating point and long counting plateau.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · GeigerMullerCounter

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Neon plus quenching admixture	RadiationCounter
Cathode material	Stainless steel	RadiationCounter

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating voltage	900 V DC	GeigerMuellerCounter
Operating temperature minimum	-55 °C	RadiationCounter
Operating temperature maximum	75 °C	RadiationCounter
Average wall thickness minimum	30 mg/cm ²	RadiationCounter
Average wall thickness maximum	40 mg/cm ²	RadiationCounter
Cathode length	3 in	RadiationCounter
Cathode outside diameter	0.625 in	RadiationCounter
Maximum overall outside diameter	0.625 in	RadiationCounter
Maximum overall length	5.625 in	RadiationCounter
Radiation application	Beta and Gamma	RadiationCounter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plateau length minimum	200 V	GeigerMuellerCounter
Plateau slope maximum	10 % per 100 V	GeigerMuellerCounter
Dead time approximately	100 μs	GeigerMuellerCounter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Shielded background maximum	50 counts/min	2InchLeadShield

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker