

ELECTRONIC TUBE REFERENCE

120C

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GEIGERMULLERCOUNTER

Gas-filled Geiger-Müller radiation counter designed for beta and X-ray detection, using a thin mica window and self-quenching fill for stable pulse counting in laboratory radiation instruments.

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	GeigerMullerCounter
<i>No fixed ratings recorded.</i>	
<i>Permanent-sensitivity gas-filled radiation counter tube for Beta & X-Ray detection.</i>	

120C is a Other device. Permanent-sensitivity gas-filled radiation counter tube for Beta & X-Ray detection. Published operating, rating, and characteristic data from the supplied page were preserved in the technical output.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Argon + quenching admixture	—
Operating voltage	1200 V	DC
Window thickness	0.0008 in	MicaWindow
Window areal density	5.6 mg/cm ²	MicaWindow
Effective mica-window diameter	1-29/32 in	—
Cathode dimensions	2-11/16 long x 2 OD x 5/64 wall	—
Maximum overall tube dimensions	2-3/8 x 5-1/8	—
Radiation application	Beta & X-Ray	—
Operating temperature range minimum	-55 degC	—
Operating temperature range maximum	75 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plateau length	in excess of 300 V	—
Plateau slope	5% to 10% per 100 V	—
Dead time	300 us	Approximate
Maximum shielded background	100 counts/min	Shielded by 2 inches of lead

TUBE TINKER

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

