



ELECTRONIC TUBE REFERENCE

1852401

Specialized - Radiation Counter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GEIGERMULLERCOUNTER

18524/01 variant of the halogen-quenched Geiger-Müller counter for gamma and beta measurements of liquid samples, using sample-containing geometry for efficient radioactive-liquid activity measurements.

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

No fixed ratings recorded.

Gas-filled radiation-counter section; counter-specific electrical characteristics are retained in TUBE_SECTION_PARAMETER.

18524/01 variant of the halogen-quenched radiation counter for liquid-sample gamma and beta measurements. The supplied Philips sheet was read in English from the multilingual English/French/German data, including operating voltage, plateau behavior, background count, timing, life, and construction data where published.

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · GeigerMullerCounter

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Neon, argon and halogen quenching agent	—
Glass wall thickness	25 mg/cm ²	—
Liquid capacity	9-10 cm ³	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance	2.5 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starting voltage minimum	335 V	—
Starting voltage maximum	350 V	—
Plateau length minimum	100 V	—
Plateau slope typical	0.06 %/V	—
Plateau slope maximum	0.15 %/V	—
Shielded background	12 counts/min	2inPb;1/4inAl
Expected count life minimum	50000000000 counts	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating voltage minimum	400 V	—

TUBE TINKER

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

