

ELECTRONIC TUBE REFERENCE

XP1010

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PHOTOMULTIPLIER

Multistage photomultiplier for sensitive optical or radiation-detection instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Photomultiplier
<i>No fixed ratings recorded.</i>
<i>Published electrical data additionally captured in parameter rows.</i>

Photomultiplier tube with published photocathode, multiplier, sensitivity, capacitance, dark-current, timing and high-voltage operating data for optical or radiation-detection applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Photomultiplier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tube has an energy resolution of about	8	tube has an energy resolution of about 50 ~ for Cu,Ka (8 keV).
Luminous sensitivity ' ~ min	35	Luminous sensitivity ' ~ min. 35 μ Alm
Radiant sensitivity	50 mA	Radiant sensitivity 2~ avg. 50 mA~W
Dark current (at room temperature	2	Dark current (at room temperature 10-15 A~cm ²
2~ At a wavelength of	4200	2~ At a wavelength of 4200 ~.
Anode sensitivity avg	1250	Anode sensitivity avg. 1250 Alm
(at a total voltage of	1800 V	(at a total voltage of 1800 V) Na - min.
- with voltage divider type A up to	30 mA	- with voltage divider type A up to 30 mA
- with voltage divider type B up to	100 mA	- with voltage divider type B up to 100 mA
Voltage between cathode min	120 V	Voltage between cathode min. 120 V
Voltage between two min	80 V	Voltage between two min. 80 V .
Voltage between	4	Voltage between 810 min. 80 V 4)
4) When calculating the anode voltage the voltage drop in the	4	4) When calculating the anode voltage the voltage drop in the
load resistance RL should not be overlooked	3	load resistance RL should not be overlooked. 3
To achieve a stability of about	1	To achieve a stability of about 1 ~ the ratio of the current.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dark current (at Na	0.05	Anode dark current (at Na = 60 Alm) max. 0.05 μ A
Total voltage Vb = max	1800 V	Total voltage Vb = max. 1800 V
Anode dissipation Wa max	0.5 W	Anode dissipation Wa max. 0.5 W