



ELECTRONIC TUBE REFERENCE

51UVP

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOMULTIPLIER

Amperex photomultiplier designed for sensitive photoelectric measurement. Its multiplier stages amplify the primary photocathode current internally, allowing detection of optical signals far weaker than ordinary single-stage phototubes can measure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	DUQDECAL 12-p	BASE PINS	12
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Photomultiplier	
MAXIMUM PLATE DISSIPATION	0.5 W
<i>Published ratings and operating/characteristic data reviewed.</i>	

51UVP is listed in the supplied Amperex material as a photomultiplier tube. Published ratings and operating characteristics were captured from the supplied table.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Photomultiplier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum useful photocathode diameter	32 mm	Photomultiplier
Number of dynodes	11	Photomultiplier
Maximum spectral response	4000 angstrom	Photomultiplier
Minimum photocathode sensitivity	25 uA/lm	Photomultiplier
Average photocathode sensitivity	50 uA/lm	Photomultiplier
Minimum anode sensitivity	60 A/lm	Photomultiplier
Average anode sensitivity	500 A/lm	Photomultiplier
Minimum sensitivity	60 A/lm	Photomultiplier
Luminous-flux linearity lower ratio	30	Photomultiplier
Luminous-flux linearity upper ratio	100	Photomultiplier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	1800 V	Photomultiplier
Maximum direct dark current	50 nA	Photomultiplier
Maximum anode dissipation	0.5 W	Photomultiplier

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 · Photomultiplier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Multiplier stages	11	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum useful photocathode diameter	32 mm	—
Wavelength at maximum response	4000 angstrom	—
Linear-response anode pulse current	30 mA	CircuitFigure1
Linear-response anode pulse current	100 mA	CircuitFigure2
Typical anode sensitivity	500 A/lm	—
Minimum anode sensitivity	60 A/lm	—
Maximum anode dark current	0.00005 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum total supply voltage	1800 V	—
Maximum anode current	1 mA	—
Maximum anode dissipation	0.5 W	—
Minimum cathode to first dynode voltage	180 V	—
Minimum consecutive dynode voltage	80 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to final dynode capacitance	3 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to all other electrodes capacitance	5 pF	—

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