

ELECTRONIC TUBE REFERENCE

3533

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Gas-filled red- and infrared-sensitive phototube using a cesium-on-oxidized-silver photocathode with approximately 2.25 cm² projected sensitive area. Designed for direct detection of longer-wavelength visible and near-infrared radiation.

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 PhotoemissiveDetector	
MAXIMUM PLATE VOLTAGE	100 V
Published ratings and characteristics promoted semantically from the approved Philips source.	

Gas-filled red and infrared phototube with cesium-on-oxidized-silver cathode and 2.25 square-centimeter projected sensitive area.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · PhotoemissiveDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Projected Sensitive Area	2.25 cm ²	—
Dark Current Maximum	0.1 uA	At 50 C
Sensitivity	120 uA/lm	2700 K lamp

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Voltage	85 V	—
Maximum Anode Voltage	100 V	—
Maximum Cathode Current Density	0.02 uA/mm ²	—
Maximum Ambient Temperature	50 C	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · PhotoemissiveDetector

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacités Cak	3.4 pF	Capacités Cak = 3,4 pF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va = 100 100 80	50 V	Va = 100 100 80 50 V
Ia = f 2 > 2 \$	5 S	Ia = f 2 > 2 \$ 5 S 7,5 pa
R = 2 2 0,1	0 MΩ	R = 2 2 0,1 0 MQ
Va = max,	100 V	Va = max, 100 V
Capacité Cak	3.4 PF	Capacité Cak. =. 3,4 PF
Ra	1 MΩ	Ra = 1 MQ
Sensibilité (Va	85 V	Sensibilité (Va = 85 V) = 120 ,a/t')
scurcissement	85 V	scurcissement 85 V) < 0,1 pa
Sensibilité (Va	85 V	Sensibilité (Va = 85 V) 1 20 ua/2 ")
Q S	21 A	Q S 21 A -1