



ELECTRONIC TUBE REFERENCE

3546

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVE DETECTOR

Gas-filled red- and infrared-sensitive phototube using a cesium-on-oxidized-silver photocathode with approximately 0.9 cm² sensitive area. Gas amplification improves photocurrent for longer-wavelength optical detection.

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

SECTION 1 Photoemissive Detector	
MAXIMUM PLATE VOLTAGE	90 V
<i>Published ratings and characteristics promoted semantically from the approved Philips source.</i>	

Gas-filled red and infrared phototube with cesium-on-oxidized-silver cathode and 0.9 square-centimeter 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	0.9 cm ²	—
Dark Current Maximum	0.1 uA	At 50 C
Dark Current Maximum	2.5 uA	At 100 C
Sensitivity	150 uA/lm	2700 K lamp

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Voltage	90 V	—
Maximum Anode Voltage	90 V	—
Maximum Cathode Current Density	0.02 uA/mm ²	—
Maximum Ambient Temperature	100 C	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance	2 pF	—

1999 Philips 0-D

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1999 PHILIPS 0-D
Section 1 · PhotoemissiveDetector

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
[S	8 A	[S 8A
Capacité Cak	2 pF	Capacité Cak = 2 pF
scurcissement (Vg	90 V	scurcissement (Vg = 90 V) < 0,1 ua
Capacité Cax	2 pF	Capacité Cax = 2 pF
Ra	1 MΩ	Ra = 1 MQ
Capa01te Cak	2 pF	Capa01te Cak = 2 pF
scurcissement a= (tamp= 1007C)<	2.5 ua	scurcissement a= (tamp= 1007C)< 2,5 ua

TUBE TINKER

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