



ELECTRONIC TUBE REFERENCE

5612

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Gas-filled phototube designed for photoelectric light detection. Manufacturer data specify spectral response, sensitivity, dark current, and cathode-current ratings for direct optical measurement with gas-enhanced photocurrent.

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	110 V
Gas-filled phototube; source sheet also covers 5613-5617.	

5612 is a gas-filled phototube intended for photoelectric light detection, with published spectral response, sensitivity, dark-current and cathode-current ratings.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1945 Continental Electronics

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

1945 CONTINENTAL ELECTRONICS

Section 1 · PhotoemissiveDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Spectral Response	S4	—
Luminous Sensitivity	30–180 $\mu\text{A}/\text{lm}$	100 V; 0 cycles
Wavelength Most Useful Maximum	3500–4500 angstrom	—
Sensitivity at Maximum Response	0.125 $\mu\text{A}/\mu\text{W}$	—
Gas Amplification	5-5	Source OCR unclear

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dark Current	—0.05 μA	100 V
Average Cathode Current	—10 μA	Maximum
Peak Cathode Current Density	—100 $\mu\text{A}/\text{in}^2$	Maximum
Ambient Temperature	—75 C	Maximum