

ELECTRONIC TUBE REFERENCE

FW114

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Biplanar high-current photodiode intended for close optical coupling to scintillators. Designed for measuring intense gamma radiation, cosmic rays, X-rays, and nuclear particles through fast scintillation-light 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

SECTION1 PhotoemissiveDetector	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM CATHODE CURRENT	25 A

The FW-114 is a biplanar high-current photodiode intended for close optical coupling to scintillators and measurement of intense gamma radiation, cosmic rays, X rays, and nuclear particles.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · PhotoemissiveDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Voltage	2500 V	—
Average Dark Current	0.000001 mA	—
Maximum Linear Output Current	25 A	—
Dynamic Range	250000000000	—
Photocathode Construction	Biplanar	—
Scintillator Coupling	Flat disc in faceplate cavity	—
Radiation Monitoring	Gamma, cosmic rays, X rays, nuclear particles	—

TUBE TINKER

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