

ELECTRONIC TUBE REFERENCE

7819

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PHOTOMULTIPLIER

Ten-stage five-inch end-on photomultiplier designed for large scintillators, flying-spot scanners, and photometric instruments. Its large photocathode and dynode multiplication chain support high-sensitivity measurement over a broad area.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B14-38	BASE PINS	14
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Photomultiplier	
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	1 W
Photomultiplier; 2000 V maximum anode-to-cathode supply and 1 W average anode dissipation.	

10-stage 5-inch end-on photomultiplier for large scintillators, flying-spot scanners and photometric instruments.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 CBS Hytron

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

1960 CBS HYTRON

Section 1 · Photomultiplier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-cathode supply voltage maximum	2000 V	—
Last dynode-anode voltage maximum	250 V	—
Cathode-first dynode voltage maximum	400 V	—
Cathode-focusing electrode voltage maximum	400 V	—
Average anode current maximum	5 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode luminous sensitivity	70 $\mu\text{A}/\text{lm}$	Average
Anode luminous sensitivity	13.5 A/lm	$V_a - k = 1250\text{V}$; Average

TUBE TINKER

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and their source documents.

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