

ELECTRONIC TUBE REFERENCE

27M1

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PHOTOMULTIPLIER

Nine-stage photoelectric multiplier designed for detecting and amplifying very weak visible-light signals.

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 Photomultiplier
No fixed ratings recorded.
REDO promoted-field audit

Nine-stage photo-electric multiplier for very weak visible-light signals.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Photomultiplier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum dynode supply voltage	950 V	K10 to K1
Maximum anode current	1 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode sensitivity	20 $\mu\text{A}/\text{lm}$	2700 K light source
Typical multiplication	1000000	100 V per stage

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 AEI Industrial Valves

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

1961 AEI INDUSTRIAL VALVES

Section 1 · Photomultiplier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum dynode-chain voltage	950 V	—
Maximum anode-to-last-dynode voltage	150 V	—
Maximum anode current	1 mA	—
Cathode sensitivity	20 $\mu\text{A}/\text{lumen}$	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average current amplification	1000000	—
Maximum anode dark current	0.25 uA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Associated Electrical Industries

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

1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · Photomultiplier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum dynode-chain voltage	950 V	—
Maximum anode current	1 mA	—
Cathode sensitivity	20 uA/lumen	—
Average current amplification	1000000	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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