

ELECTRONIC TUBE REFERENCE

8320

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch direct-view half-tone storage tube for radar and transient-data display. It stores varying-intensity information rather than only binary traces, supporting detailed persistent presentations.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded. Cathode-ray/storage display structure. The fixed promoted fields are not semantically applicable; published view-screen and electron-gun ratings are preserved in parameters.

The Machlett ML-8320 is a five-inch direct-view half-tone storage tube for radar and transient-data display.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum view-screen voltage	8000 V	—
Maximum view-screen dissipation	10 W	—
Storage-mesh voltage maximum	200 V	—
Collector-mesh voltage	300 V	—
Collimating anode voltage	300 V	—
Write/flood anode No.2 voltage	150 V	—
Anode No.3 voltage	200 V	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker