

ELECTRONIC TUBE REFERENCE

FW223

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch direct-view storage cathode-ray tube designed to write and retain electronic information for persistent display. Its storage target allows information to remain visible without continuous refresh.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	12000 V

Five-inch magnetically deflected, electrostatically focused direct-view storage CRT.

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 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	2.1 A	—
Typical Viewing Screen Voltage	10000 V	—
Collector Voltage	200 V	—
Write Cathode Voltage	-1000 V	—
Resolution at 200 ft-L	120 lines/in	—
Resolution at 1500 ft-L	50 lines/in	—
Light Output	2500 ft-L	—
Writing Speed	70000 in/s	—
Erase Time	10 ms	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Viewing/High-Voltage Electrode Potential	12000 V	—
Viewing Time Maximum	30 s	—