

ELECTRONIC TUBE REFERENCE

D3003

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

ITT dark-trace storage cathode-ray tube with adjustable retained-image time. It stores a visible dark trace, allowing information to remain on the screen without continuous refresh.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	14000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM CATHODE CURRENT	0.5 mA
Storage CRT; screen, focus, erase, and coating data retained in parameters.	

The ITT D3003 is a dark-trace storage cathode-ray tube with adjustable retained-image time.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage rating	14000 V	—
Screen-grid voltage	300 V	—
Quenching power minimum	10 W	—
Quenching power maximum	15 W	—
Maximum cathode current	0.5 mA	—
Grid-leak resistance	0.5 Mohm	—
Average anode voltage	10000 V	—
Average grid 2 voltage	300 V	—
Erasing wattage	75 W	—
Focusing voltage	0–400 V	—
Biasing/cutoff potential	-86--40 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	7 pF	—
Cathode capacitance to all other electrodes	5 pF	—
Anode-to-external-coating capacitance	400–800 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Quenching-layer resistance	80–120 ohm	—

TUBE TINKER

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and their source documents.

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