



ELECTRONIC TUBE REFERENCE

6990

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

CATHODERAY-CATHODERAY

Five-inch tone-display storage CRT with distinct electrostatic writing and viewing guns. Both gun systems operate at high voltage, enabling information to be written, stored, and repeatedly viewed on the same screen.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM HEATER-CATHODE VOLTAGE	125 V
Writing gun of tone-display storage CRT; device-specific storage-mesh/collector/collimator data retained as parameters.	

SECTION2 Cathode Ray	
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM HEATER-CATHODE VOLTAGE	125 V
Viewing gun of tone-display storage CRT; device-specific storage-mesh/collector/collimator data retained as parameters.	

5-inch tone-display storage CRT with distinct electrostatic writing and viewing guns.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Vacuum Tube Products

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

1955 VACUUM TUBE PRODUCTS

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	WritingGun
Heater Current	600 mA	WritingGun

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 Negative Bias Maximum	200 V	WritingGun
Deflecting Electrode Peak Voltage	500 V	WritingGun
Deflecting Electrode Circuit Resistance Maximum	50 Mohm	WritingGun
Typical Screen Voltage	8000 V	—
Typical Cathode Voltage	-1400 V	WritingGun
Typical Grid 1 Voltage	-30--20 V	WritingGun
Typical Focus Voltage	-1100 V	WritingGun

1955 VACUUM TUBE PRODUCTS

Section 2 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	ViewingGun
Heater Current	600 mA	ViewingGun

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Storage Mesh Peak Voltage Maximum	25 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Collector Mesh Voltage Maximum	500 V	—
Collimating Cylinder Voltage Maximum	500 V	—
Viewing Gun Anode Voltage Maximum	500 V	ViewingGun
Typical Collector Mesh Voltage	200 V	—
Typical Collimating Cylinder Voltage	120 V	—
Typical Viewing Gun Anode Voltage	185 V	ViewingGun
Typical Grid 1 Voltage	-50--30 V	ViewingGun

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