



ELECTRONIC TUBE REFERENCE

31B81

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Flat-screen all-electrostatic cathode-ray tube with post-deflection acceleration for high-precision instruments. The accelerated beam and electrostatic deflection system provide a bright, accurately positioned trace for precision oscillographic measurement.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	14
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION0 Cathode Ray	
MAXIMUM PLATE VOLTAGE	8000 V
All-electrostatic CRT; additional electrode limits are parameters.	

Flat-screen all-electrostatic cathode-ray tube with post-deflection acceleration for high-precision instruments.



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 0 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumFinalAnodeVoltage	2 kV	—
MaximumThirdAnodeVoltage	4 kV	—
MinimumThirdAnodeVoltage	1 kV	—
MaximumSecondAnodeVoltage	2 kV	—
Maximum Heater Cathode Voltage	150 V	—



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 0 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumFinalAnodeVoltage	8000 V	—
MinimumFinalAnodeVoltage	2000 V	—
MaximumThirdAnodeVoltage	4000 V	—
MinimumThirdAnodeVoltage	1000 V	—
MaximumSecondAnodeVoltage	2000 V	—
MaximumFirstAnodeVoltage	2500 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumFirstAnodeVoltage	1000 V	—
Maximum Heater Cathode Voltage	150 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalSecondAnodeVoltage	350 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To All Capacitance	8 pF	—
GridToAllCapacitance	17 pF	—
X1ToX2Capacitance	2.5 pF	—
Y1ToY2Capacitance	3 pF	—



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 0 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumFinalAnodeVoltage	8000 V	—
MinimumFinalAnodeVoltage	2000 V	—
MaximumThirdAnodeVoltage	4000 V	—
MinimumThirdAnodeVoltage	1000 V	—
MaximumSecondAnodeVoltage	2000 V	—
MaximumFirstAnodeVoltage	2500 V	—
MinimumFirstAnodeVoltage	1000 V	—
Maximum Heater Cathode Voltage	150 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalSecondAnodeVoltage	350 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To All Capacitance	8 pF	—
GridToAllCapacitance	17 pF	—
X1ToX2Capacitance	2.5 pF	—
Y1ToY2Capacitance	3 pF	—

TUBE TINKER

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and their source documents.

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