

ELECTRONIC TUBE REFERENCE

31B82

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Precision five-inch all-electrostatic cathode-ray tube with helical post-deflection acceleration for high-performance oscillography. Its high deflection sensitivity and accelerated beam are designed for accurate, bright oscilloscope traces.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	14
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION0 Cathode Ray	
MAXIMUM PLATE VOLTAGE	12000 V
All-electrostatic CRT with helical post-deflection acceleration.	

Precision all-electrostatic 5-inch cathode-ray tube with helical post-deflection acceleration for high-performance oscillography.



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
MaximumSecondAnodeVoltage	800 V	—
MaximumFirstThirdAnodeVoltage	2 kV	—
Maximum Heater Cathode Voltage	180 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	12000 V	—
MaximumSecondAnodeVoltage	800 V	—
MaximumFirstAndThirdAnodeVoltage	2000 V	—
MaximumThirdAnodePeakVoltageToDeflectionPlates	500 V	—
Maximum Heater Cathode Voltage	180 V	—
MaximumIsolationShieldVoltage	2100 V	—
MaximumDeflectorPlateShieldVoltage	2100 V	—
TypicalFinalAnodeVoltage	10000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalSecondAnodeVoltage	180–590 V	—
TypicalFirstAndThirdAnodeVoltage	1670 V	—
GridBiasForCutoff	-80--50 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To All Capacitance	4.6 pF	—
GridToAllCapacitance	6.4 pF	—
X1ToX2Capacitance	1.9 pF	—
Y1ToY2Capacitance	1.5 pF	—



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	12000 V	—
MaximumSecondAnodeVoltage	800 V	—
MaximumFirstAndThirdAnodeVoltage	2000 V	—
MaximumThirdAnodePeakVoltageToDeflectionPlates	500 V	—
Maximum Heater Cathode Voltage	180 V	—
MaximumIsolationShieldVoltage	2100 V	—
MaximumDeflectorPlateShieldVoltage	2100 V	—
TypicalFinalAnodeVoltage	10000 V	—
TypicalSecondAnodeVoltage	180–590 V	—
TypicalFirstAndThirdAnodeVoltage	1670 V	—
GridBiasForCutoff	-80--50 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To All Capacitance	4.6 pF	—
GridToAllCapacitance	6.4 pF	—
X1ToX2Capacitance	1.9 pF	—
Y1ToY2Capacitance	1.5 pF	—