

ELECTRONIC TUBE REFERENCE

30C3

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

All-electrostatic precision-measurement cathode-ray tube documented by Mazda and AEI. Its focusing and deflection system is intended for accurate laboratory and industrial waveform or indicator presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	4 V / 720 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION0 Cathode Ray
No fixed ratings recorded.

All-electrostatic precision-measurement cathode-ray tube.

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
Maximum first-anode voltage	2500 V	—
Maximum second-anode voltage	1000 V	—
Maximum third-anode voltage	6000 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
MaximumFirstAnodeVoltage	2500 V	—
MaximumSecondAnodeVoltage	1000 V	—
MaximumThirdAnodeVoltage	6000 V	—
TypicalThirdAnodeVoltage	2000–6000 V	—
TypicalSecondAnodeVoltageForFocus	440–960 V	—
TypicalFirstAnodeVoltage	2000 V	—
GridBiasForCutoff	-60 V	—
XPlateSensitivityAt2000V	0.3 mm/V	—
XPlateSensitivityAt6000V	0.1 mm/V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
YPlateSensitivityAt2000V	0.57 mm/V	—
YPlateSensitivityAt6000V	0.19 mm/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
X1ToAllCapacitance	6 pF	—
X2ToAllCapacitance	6 pF	—
Y1ToAllCapacitance	8.6 pF	—
Y2ToAllCapacitance	8.6 pF	—
GridToAllCapacitance	8.2 pF	—
X1ToX2Capacitance	2.5 pF	—
Y1ToY2Capacitance	3.2 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
MaximumFirstAnodeVoltage	2500 V	—
MaximumSecondAnodeVoltage	1000 V	—
MaximumThirdAnodeVoltage	6000 V	—
TypicalThirdAnodeVoltage	2000–6000 V	—
TypicalSecondAnodeVoltageForFocus	440–960 V	—
TypicalFirstAnodeVoltage	2000 V	—
GridBiasForCutoff	-60 V	—
XPlateSensitivityAt2000V	0.3 mm/V	—
XPlateSensitivityAt6000V	0.1 mm/V	—
YPlateSensitivityAt2000V	0.57 mm/V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
YPlateSensitivityAt6000V	0.19 mm/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
X1ToAllCapacitance	6 pF	—
X2ToAllCapacitance	6 pF	—
Y1ToAllCapacitance	8.6 pF	—
Y2ToAllCapacitance	8.6 pF	—
GridToAllCapacitance	8.2 pF	—
X1ToX2Capacitance	2.5 pF	—
Y1ToY2Capacitance	3.2 pF	—

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