



ELECTRONIC TUBE REFERENCE

31C1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Six-inch aluminized cathode-ray tube with magnetic focusing and deflection for radio direction-finding compass display. Its high-brightness screen presents navigational bearing information directly to the operator.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B12A	BASE PINS	5
NOMINAL HEATER	4 V / 720 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	10000 V
<i>Magnetic aluminised CRT; 10 kV is design-centre max and 12.5 kV absolute must not be exceeded.</i>	

Six-inch magnetic aluminised cathode-ray tube for radio direction-finding compass display at high brightness.

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 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Anode Voltage	7500 V	—
AbsoluteMaximumAnodeVoltage	12500 V	—
Typical Anode Voltage	9500 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridAllCapacitance	4.7 pF	—

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