

ELECTRONIC TUBE REFERENCE

7ABP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch cathode-ray tube with electrostatic focusing and magnetic deflection, specifically designed for radar displays. Its P7 phosphor provides long-persistence radar trace visibility.

GENERAL CHARACTERISTICS

BASE DESIGNATION	1M	BASE PINS	6
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	11000 V
Published Du Mont ratings and characteristics retained from the supplied source.	

Seven-inch cathode-ray tube with electrostatic focusing and magnetic deflection, designed for radar displays with P7 phosphor.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Du Mont

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

1960 DU MONT

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
DeflectionMethod	Magnetic	—
FocusingMethod	Electrostatic	—
Phosphor	P7	Radar



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Magnetic	—
Deflection Angle	39 degree	—
Phosphor	P7 blue-white/yellow, long persistence	—
MinimumUsefulScreen	6 in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To All Capacitance	5 pF	—
Grid1 To All Capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1CircuitResistanceMaximum	1.5 Mohm	—
AnodeVoltageMaximum	11000 V	—
FocusElectrodeVoltageMinimum	-550 V	—
FocusElectrodeVoltageMaximum	1100 V	—
Grid2VoltageMaximum	770 V	—
Grid1NegativeBiasMagnitudeMaximum	200 V	—
HeaterCathodeVoltageMaximum	200 V	—
Anode Voltage	7000 V	—
FocusElectrodeVoltage	0 to 250 V	—
Grid2 Voltage	300 V	—
Grid1VoltageForCutoff	-28 to -72 V	—