



ELECTRONIC TUBE REFERENCE

7ABP19A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch radar-display CRT with electrostatic focusing, magnetic deflection, and a P19 orange long-persistence screen for retained radar traces and echoes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 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	11000 V
<i>Published ratings and characteristics promoted from the supplied CSF/Thomson source where explicitly available.</i>	

Sylvania seven-inch CRT with electrostatic focus, magnetic deflection, and P19 orange, long persistence. Published electrical ratings, capacitances, and operating conditions were extracted from the supplied datasheet.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—



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	P19 orange, long persistence	—
MinimumUsefulScreen	6 in	—
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	—

TUBE TINKER

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and their source documents.

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