ELECTRONIC TUBE REFERENCE

5BRP19

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch direct-view instrument CRT with electrostatic focusing, magnetic deflection, an aluminized P19 screen, and approximately 70-degree deflection. Its construction supports bright specialized monitoring and display applications.

General characteristics

BASE DESIGNATION	9HT	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 300 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	10000 V

CRT highest published anode/accelerating voltage is promoted to MaxPlateVoltage; additional electrode, deflection, optical, and capacitance data are retained as parameters.

Five-inch direct-view CRT with electrostatic focus, magnetic deflection, aluminized screen, and approximately 70-degree deflection.

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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	**3 pF**	—
Grid No. 1 to all other electrodes capacitance	**6.5 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	**10000 V**	—
Grid No. 4 focus voltage range	**-550–1100 V**	—
Maximum grid No. 2 voltage	**770 V**	—
Peak heater-cathode voltage, heater negative	**180 V**	—
Peak heater-cathode voltage, heater positive	**180 V**	—
Typical anode voltage	**8000 V**	—
Typical grid No. 4 focus voltage range	**-50–350 V**	—
Typical grid No. 2 voltage	**300 V**	—
Grid No. 1 cutoff voltage range	**-45–-15 V**	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical line width	**0.014 in**	—
Maximum undeflected spot-position radius	**0.25 in**	—

CIRCUITVALUE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid No. 1 circuit resistance maximum	**1.5 MOhm**	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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