

ELECTRONIC TUBE REFERENCE

3WP11

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Three-inch tight-tolerance industrial CRT with high sensitivity, improved perpendicularity, and flat face to reduce parallax. Its P11 screen gives blue fluorescence with short persistence for fast precision traces.

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

SECTION1 Cathode Ray
No fixed ratings recorded. CRT-specific electrode voltages, deflection factors, capacitances, focus/cutoff data, and other published electrical values are stored as section parameters because the promoted section columns are primarily conventional valve fields.

The Du Mont 3WP11 is a tight-tolerance industrial CRT with high sensitivity, improved perpendicularity, and flat face to reduce parallax. This variant uses a P11 screen with blue fluorescence and short persistence.



SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P11	—
Focusing Method	Electrostatic	—
Deflecting Method	Electrostatic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Anode No. 2 Voltage	2000 V	—



SOURCE OPERATING CONDITIONS

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Phosphor	P11 text	—
Fluorescence	Blue text	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	Short text	—



SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	1 code	Electrostatic
Deflection method	1 code	Electrostatic
Deflection factor D1-D2 minimum	62 V/in	—
Deflection factor D1-D2 maximum	76 V/in	—
Deflection factor D3-D4 minimum	43 V/in	—
Deflection factor D3-D4 maximum	52 V/in	—
Useful screen / scan	1 code	2.75-inch minimum useful screen diameter
Phosphor designation	1 code	P11
Deflection factor uniformity maximum	2 %	—
Pattern distortion maximum	2.5 %	At75PercentUsefulScan
Useful scan D1-D2	2.5 in	MinimumTotal
Useful scan D3-D4	2.25 in	MinimumTotal

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage	1500 V	—
Focusing electrode voltage minimum	247 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing electrode voltage maximum	465 V	—
Grid No. 1 cutoff voltage minimum	-75 V	—
Grid No. 1 cutoff voltage maximum	-45 V	—
Grid No. 1 negative bias maximum	200 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes minimum	3 pF	Approximate or published bound
Cathode to all other electrodes maximum	5.7 pF	Approximate or published bound
Grid No. 1 to all other electrodes minimum	4.6 pF	Approximate or published bound
Grid No. 1 to all other electrodes maximum	8.7 pF	Approximate or published bound
Deflection plates 1-2 capacitance minimum	1.7 pF	Approximate or published bound
Deflection plates 1-2 capacitance maximum	3.3 pF	Approximate or published bound
Deflection plates 3-4 capacitance minimum	1 pF	Approximate or published bound
Deflection plates 3-4 capacitance maximum	2 pF	Approximate or published bound