



ELECTRONIC TUBE REFERENCE

3RP1A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Short flat-face three-inch Du Mont oscilloscope CRT for low- and medium-voltage applications, combining high deflection sensitivity with a P1 green medium-persistence screen for general waveform viewing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
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

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 3RP1A is a short flat-face three-inch CRT for low- and medium-voltage oscillographic applications with high sensitivity. This variant uses a P1 screen with green fluorescence and medium persistence.



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Phosphor	P1 text	—
Fluorescence	Green text	—
Persistence	Medium text	—



SOURCE OPERATING CONDITIONS

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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	146 V/in	—
Deflection factor D1-D2 maximum	198 V/in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor D3-D4 minimum	104 V/in	—
Deflection factor D3-D4 maximum	140 V/in	—
Useful screen / scan	1 code	3-inch round direct-view screen
Phosphor designation	1 code	P1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage maximum	2750 V	—
Anode No. 2 / accelerator voltage	2000 V	—
Focusing electrode voltage maximum	1100 V	—
Focusing electrode voltage minimum	330 V	—
Focusing electrode voltage maximum	620 V	—
Grid No. 1 cutoff voltage minimum	-135 V	—
Grid No. 1 cutoff voltage maximum	-45 V	—
Peak heater-to-cathode voltage	140 V	—
Peak voltage between accelerator and any deflection plate	550 V	—
Grid No. 1 negative bias maximum	220 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 1 of 7

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

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	63 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 1	0	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 2	6	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 3	10	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 to all other electrodes	8	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 - Heater – published value 1	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 - Heater – published value 2	8	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 2 - Grid No.1 – published value 1	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 2 - Grid No.1 – published value 2	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
pin 3 - Cathode	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 4 - Grid No.3	4	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 12 - Heater	12	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
With DJ1 positive with respect to DJ 2, the spot is deflected	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
toward pin 4. With DJ3 positive with respect to DJq, the spot	4	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
PEAK V-OLTAGE BETWEEN ULTOR AND	0	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
For any ultor voltage (Ec41 between goo` and 2500volts – published value 1	6 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
For any ultor voltage (Ec41 between goo` and 2500volts – published value 2	25 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 1	16.5 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 2	31 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot	6.75 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
to its deflection. rn the 7RP1-A, the ultor function Is Derformetl by	7	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
grid No. 4. Since grid No. u, grid No. 2, and collector are connected to – published value 1	4	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
grid No. 4. Since grid No. u, grid No. 2, and collector are connected to – published value 2	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
1/# The center of the undefl ec tetl focused spot will fall within a circle	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
For ultor voltages of	2000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 1	165 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 2	310 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
for Focus – published value 3	330 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 4	620 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 1	-67.5 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 2	-135 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Capacitors	5 ohm	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID -N>'3 VOLTS	3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ULTOR° VOLTAGE	2500 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
ULTOR INPUT (AVERAGE)	6 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID-No.3 VOLTAGE	1000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Heater negative with respect to cathode	125 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Heater positive with respect to cathode	125 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.1-Circuit Resistance – published value 1	1 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.1-Circuit Resistance – published value 2	5 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.



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