

ELECTRONIC TUBE REFERENCE

4490

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Oscillograph cathode-ray tube for waveform and instrumentation display with post-deflection acceleration up to several kilovolts. The accelerated beam provides a bright trace while retaining electrostatic precision for measurement applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	1
NOMINAL HEATER	6.9 V / —	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.

Oscillograph cathode-ray tube for waveform and instrumentation display. The supplied datasheet was used for heater data, electrode ratings, focus and deflection information, capacitances, screen/phosphor characteristics, and applicable operating limits.

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.

1971 RCA HB3 BINDER 1 OF 7

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
7-IN DIAMETER	7	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Neater Current at 6.3 V – published value 1	6.3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Neater Current at 6.3 V – published value 2	0.6	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.~ 'o all other electrodes	6 pF	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 -Heater	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 2 -Cathode	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 3 -Grid No.1	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 5 -Grid No.3 – published value 1	5	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 5 -Grid No.3 – published value 2	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 9 -Anode (Grids No.2&No.4)	9	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 14 -Heater	14	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Post-Deflection Accelerator Voltage	6000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Anode Voltage	3000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.3 (Focusing-Electrode) Voltage – published value 1	750 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.3 (Focusing-Electrode) Voltage – published value 2	1200 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No. 1 Voltage – published value 1	-58 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No. 1 Voltage – published value 2	-93 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
2.00±.06DA, to DJ2, the spot will be	2	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
Post-Deflection Accelerator Voltage	8000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Anode Voltage	4000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid-No.3 (Focusing-Electrode) Voltage	2000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Heater Voltage	6.9 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 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater positive with respect to cathode	125 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 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.
Resistance in any Deflection Electrode Circuits	5 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.