

ELECTRONIC TUBE REFERENCE

4531

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Cathode-ray display tube specifically intended for radar-display service. Its screen persistence and beam-control characteristics support retention and presentation of radar returns between successive sweeps.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	125 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.

Cathode-ray display tube intended for radar-display service. 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](#)

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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
Voltages IAC or DC)	6.3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Persistence – published value 1	100	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Persistence – published value 2	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Anode Voltage	8500 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.4 Voltagec – published value 1	40 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.4 Voltagec – published value 2	250 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.2 Voltage	250 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.t Voltaged – published value 1	25 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.t Voltaged – published value 2	50 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Anode Current	100	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.3 Current	10	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.2 Current	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 Drive Voltage	25 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Note 1: Anode button J1-22 – 1 published value 1	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Note 1: Anode button J1-22 – 22 published value 2	22	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Button –Anode, G3	6.25	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
Grid No.1 to all other electrodes	10 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Anode Voltage	12000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.4 Voltage	450 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Peak Heater Cathode Voltage	125 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.