



ELECTRONIC TUBE REFERENCE

1EP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Small measurement cathode-ray tube with electrostatic focusing and deflection for oscilloscope and laboratory instrument service. Its low accelerating voltage and compact screen suit waveform observation and built-in test equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	11V	BASE PINS	11
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	
MAXIMUM PLATE VOLTAGE	1500 V
Cathode-ray electron-gun/screen system; anode/ultor maximum promoted to MaxPlateVoltage when explicitly published. No explicit X-ray precaution detected in the supplied source.	

Measurement cathode-ray tube with electrostatic deflection for oscilloscope and laboratory instrument service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	1500 V	—
UltorVoltageMaximum	1500 V	—
RecommendedMinimumUltorVoltage	500 V	General service



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	600 mA	Published nominal value
Vertical deflection sensitivity	85–120 V/cm	Per 1000 V anode voltage
Horizontal deflection sensitivity	95–135 V/cm	Per 1000 V anode voltage



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal heater voltage
Heater Current	600 mA	Nominal heater current
Phosphor	P1	Published phosphor designation
Voltage	63 V	Voltage 63 ac or dc volts
Current	10 A	Current 0.6 to 10% amp
ULTOR VOLTAGE	1500 V	ULTOR VOLTAGE 1500 max, volts
GRID-No.3 VOLTAGE	1200 V	GRID-No.3 VOLTAGE 1200 max. volts
ANY DEFLECTING ELECTRODE	500 V	ANY DEFLECTING ELECTRODE 500 max. volts
Heater negative with respect to cathode	125 V	Heater negative with respect to cathode. 125 max. volts
Heater positive with respect to cathode	125 V	Heater positive with respect to cathode. 125 max, volts
for Focus	30 V	for Focus 10% to 30% of Ec4 volts
Spot	-4.2 V	Spot -1.4% to -4.2% of Ec4 volts
For ultor voltage of gun i000 volts	0 V	For ultor voltage of gun i000 volts
for Focus	100-300 V	for Focus 50 to 150 100 to 300 volts
and	500 V	and 500 volts, it is essential that the ultor voltage be applied DePo re
For ultor voltage of gun J000 volts	0 V	For ultor voltage of gun J000 volts
Spot	-14--42 V	Spot -7 to -21 -14 to -42 volts
Grid-No.1-Circuit Resistance	1.5 MΩ	Grid-No.1-Circuit Resistance 1.5 max. megohms
GRID MODULATION	117 V	GRID MODULATION 117 V
— GRID-NS'.3 VOLTS ADJUSTED FOR FOCUS	3 V	— GRID-NS'.3 VOLTS ADJUSTED FOR FOCUS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID-N'3 VOLTS ADJUSTED FOR FOCUS i11111111111111111111~111111	3 V	GRID-N'3 VOLTS ADJUSTED FOR FOCUS i11111111111111111111~111111

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	Published focusing method
Deflection Method	Electrostatic	Published deflection method

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to all other electrodes	6.5 pF	Grid No.1 to all other electrodes 6.5 pF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
deflecting electrode DJ2	1.7 pF	deflecting electrode DJ2 1.7 pF
deflecting electrode DJq	0.6 pF	deflecting electrode DJq 0.6 pF

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