



ELECTRONIC TUBE REFERENCE

4050AB

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Early electrostatic cathode-ray oscillograph tube with a blue photographic screen, intended for measurement display; manufacturer data specifies deflection sensitivity and operation over roughly 300-2000 V anode supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	0.75 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	1500 V
Gas-focused CRT; blue screen.	

Gas-filled cathode-ray tube with electrostatic deflection, a directly heated filament, 300-2000 V anode range, and a blue spot for photographic work.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament current range	700 mA–1.1 A	—
Anode voltage range	300–2000 V	—
Normal anode voltage	350 V	—
Deflecting-plate pair capacitance	5.5 pF	Including socket
Single deflecting plate to anode capacitance	7.8 pF	Including socket
Deflecting-plate pair conductance	1 umho	Approximate
Shield voltage range	0–50 V	From potentiometer
Sensitivity	260 mm/V	Approximate
Screen characteristic	blue spot for photographic work	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitances published	1	See source table for individual capacitances

**SOURCE DATA APPENDIX****SOURCE OPERATING CONDITIONS****SOURCE PDF**

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Cathode Ray

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament current	700 mA–1.1 A	—
Anode voltage	350–1500 V	—
Normal anode voltage	500 V	—
Shield voltage	0–50 V	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Sensitivity	370 mm/V	V = anode voltage

DIMENSIONS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Effective screen diameter	4 in	—

TUBE TINKER

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and their source documents.

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