

ELECTRONIC TUBE REFERENCE

DW391

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Philips high-vacuum television picture tube with white fluorescent screen and double electrostatic deflection, designed for early direct-view monochrome television receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Philips high-vacuum cathode-ray tube for television receiver service with white fluorescent screen and double electrostatic deflection.

DW391 is a CathodeRay device in the supplied Philips literature. Philips high-vacuum cathode-ray tube for television receiver service with white fluorescent screen and double electrostatic deflection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen diameter	395 mm	—
Greatest overall length	765 mm	—
Greatest length without pins	735 mm	—
Maximum third-anode voltage	6000 V	—
Maximum second-anode voltage	1200 V	—
Maximum first-anode voltage	250 V	—
Maximum grid bias for ray suppression	-60 V	—
Third-anode voltage	5000 V	—
Second-anode voltage	1000 V	—
First-anode voltage	250 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity N1	0.18 mm/V	—
Deflection sensitivity N2	0.14 mm/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	15 pF	—
Deflection-plate capacitance D1-D1'	4 pF	—
Deflection-plate capacitance D2-D2'	5 pF	—

TUBE TINKER

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and their source documents.

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