

ELECTRONIC TUBE REFERENCE

14AWP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Fourteen-inch rectangular television picture tube with electrostatic focus, 90-degree magnetic deflection, gray filter glass, external conductive coating, and an aluminized P4 screen. Its cathode-drive design and no-ion-trap gun support bright monochrome receiver pictures.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Source-derived physical section; applicable promoted ratings are populated from the printed sheet.

Westinghouse' RELIATRON® TUBES 14AWP February 25, 1958 TELEVISION PICTURE TUBE TYPE 14AWP4 90° Magnetic Deflection Low G5 Voltage (50 Volts) External Conductive Coating Rectangular Glass 6.3 Volts, 0.45 Amp. Heater Spherical Faceplate Aluminized Cathode Drive Design No Ion Trap Gray Filter Glass Electrostatic Focus 12-1/16" x 9-1/2" Picture ELECTRICAL: MAXIMUM RATINGS, Cathode Drive Service: Cathode citierviorsnnens Cootad Unipotential Dasign Center Yalues Heuater: Anode Yoltage*. vcvee. . 14000 max. Yolts Voltage fac orde) o v v v v e e v v v v aaas 6.3 Volis Grid 4 10 Grid | Voltage: Current & oo vn v v oo s aannensen 0.45 Ampero Positive Value seess s 1000 max. Yolts Direct Intareloctrods Copacitances: Megative Yalve cov v v i 500 max. Yolts Grid 1 to all other Electrodes. 6 yuf Grid 210 Grid 1 Voltage .. oo v v u v 68 max. Yolts Cathode to all other Elactrodas. 5 vuf Cathode to Grid | Yoltage: Extarnal Conducti



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
90° Magnetic Deflection Low G5 Voltage (50 Volts) External Conductive	50 V	90° Magnetic Deflection Low G5 Voltage (50 Volts) External Conductive Coating
Rectangular Glass	0.45 V	Rectangular Glass 6.3 Volts, 0.45 Amp. Heater Spherical Faceplate
Voltage fac orde) o v v v v v e e v v v v aaas	10 V	Voltage fac orde) o v v v v v e e v v v v aaas 6.3 Volis Grid 4 10 Grid Voltage:
Current & oo vn v v oo s aannensen	1000 Amper	Current & oo vn v v oo s aannensen 0.45 Ampero Positive Value seess s 1000 max. Yolts
Grid	68 V	Grid 1 to all other Electrodes. 6 yuf Grid 210 Grid 1 Voltage .. . oo v v u v 68 max. Yolts
Mindmum ... it e e	800 V	Mindmum ... it e e 800 vuf Peak Heater-Cathode Voltage:
Phosphor . » . . . o vt t t i i i i e a i n e Aluminized P4 During Wormup Period of	410 V	Phosphor . » . . . o vt t t i i i i e a i n e Aluminized P4 During Wormup Period of 15 sec. max. ... 410 max. Volts
Porsiatence . . « v o i v v v ain s nansa Short Heotar Positive with Respect to Cathode	180 V	Porsiatence . . « v o i v v v ain s nansa Short Heotar Positive with Respect to Cathode. . 180 max. Volts
Horizontal Angle, approx. « . v v v i v ot	14000 V	Horizontal Angle, approx. « . v v v i v ot 85° Anode Voltage veuv s 12000 14000 Volis
Diagonal Angle, approx. . .+« v u v e e eo e	50 V	Diagonal Angle, approx. . .+« v u v e e eo e 90° Grid 2 to Grid 1 Voltage .+ 50 50 Volis
Nelon Trap Gun &+ o v vt v vn v e v ennonns No Magnet Required Cathode	1 V	Nelon Trap Gun &+ o v vt v vn v e v ennonns No Magnet Required Cathode 1o Grid Voltage for

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Glags o v v s venin s r o annnoassos Navtral Filter In general, anode voltage should not be less than	12000 V	Glags o v v s venin s r o annnoassos Navtral Filter In general, anode voltage should not be less than. 12000 volta.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Width ...ttt n ittt iaanan	1 ohm	Width ...ttt n ittt iaanan 12-1/18" Min. Grid 4 Circuit Resistance**. 0,1 min. Magohms

TUBE TINKER

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