

Seventeen-inch rectangular aluminized television picture tube with 90-degree magnetic deflection, electrostatic focusing, gray filter glass, and no ion trap. Its cathode-drive design operates with an anode rating around 16 kV.

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 17CXP February 17, 1958 TELEVISION PICTURE TUBE TYPE 17CXP4 90° Magnetic Deflection Low G, Voltage (50 Volts) External Conductive Coating Rectangular Glass 6.3 Volt, 0.45 Amp. Heater Spherical Faceplate Aluminized Cathode Drive Design No Ion Trap Gray Filter Glass Electrostatic Focus 14.5/16" x 11-1/8" Picture ELECTRICAL: MAXIMUM RATINGS, Cathode Drive Service: Cothode ccvvvrinninsn «++.. Coated Unipotential Design Center Values Heater: Anade Voltage*. oo vt nn i un 16000 max. Volts VoMage (acorde) e 6.3 Valts Grid 4 to Grid | Voliage: Cument o v o v it i e e PP 0.45 Ampare Positive Value PPN 1000 max. Yolts Direct Interslectrode Copacitances: Nogatve Yalue . . , . . s hr e s e aa s 500 mox. VYolts Grid | to all other Electrodes. [] uuf Grid 210 Grid | Yoltage 68 max. Volts Cothode to all other Electrodes, 5 wof Cothodes to Grid | Yoltage: External Conductive Coating to Anode: Po



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 G, Voltage (50 Volts) External Conductive	50 V	90° Magnetic Deflection Low G, Voltage (50 Volts) External Conductive Coating
Rectangular Glass	0.45 V	Rectangular Glass 6.3 Volt, 0.45 Amp. Heater Spherical Faceplate
Heater: Anode Voltage*. oo vt nn i un	16000 V	Heater: Anode Voltage*. oo vt nn i un 16000 max. Volts
Cumulative Positive PP	1000 A	Cumulative Positive PP 0.45 Ampere Positive Value PPN 1000 max. Volts
Grid to all other Electrodes. [] uuf Grid	68 pF	Grid to all other Electrodes. [] uuf Grid 210 Grid Voltage 68 max. Volts
Minimum	1000 V	Minimum 1000 wuf Peak Heater-Cathode Voltage:
Phosphor i i r e Aluminized P4 During Warmup Period of	410 V	Phosphor i i r e Aluminized P4 During Warmup Period of 15 sec.max. .. 410 max. Volts
Vertical Angle (Approx.) c	14000 V	Vertical Angle (Approx.) c. . 68° Anode Voltage 12000 14000 VVolts
Diagonal Angle (Approx.)	350 V	Diagonal Angle (Approx.) 90° Grid 4 to Grid 1 Voltage <75 to 4325 -50 to +350 Volts
Noslon Trap Gun v v v v vt ottt e n e n e Neo Magnet Required Grid	50 V	Noslon Trap Gun v v v v vt ottt e n e n e Neo Magnet Required Grid 2 to Grid 1 Voltage 50 50 Volts
MECHANICAL: Roster Cutoffs	47 V	MECHANICAL: Roster Cutoffs cere s 32 to 47 32 to 47 Volts
Transmission .. oo v i v . e i e	12000 V	Transmission .. oo v i v . e i e 74 per cent In general, anode voltage should not be less than 12000 volts.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Terminal	0 V	Anode Terminal. 0v . Recessed Small Cavity Cap Inasmuch as the tube rating permits operation at voltages as high
{JETEC B5	16 V	{JETEC B5-63) voltage in excess of 16 kilovolts,

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Height. .« v v h i i i i i e r e enenns	1.5 Mohm	Height. .« v v h i i i i i e r e enenns .. 11-1/8" Min, Grid 1 Circuit Resistance of 1.5 moh, Megohms
Width e Ceee e	0.1 Mohm	Width e Ceee e 14-5/16"" Min, Grid 2 Circuit Resistance*: 0.1 min. Megohms

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