



ELECTRONIC TUBE REFERENCE

17CZP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Seventeen-inch rectangular television picture tube with 90-degree magnetic deflection, electrostatic focusing, aluminized gray-filter screen, external conductive coating, and no ion trap. Its high-voltage anode is rated 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

SECTION 1 Cathode Ray

No fixed ratings recorded.

Source-derived physical section; applicable promoted ratings are populated from the printed sheet.

"Westinghouse RELIATRON® TUBES 17CZP4 May 29, 1958 TELEVISION PICTURE TUBE TYPE 17CZP4
90° Magnetic Deflection Electrostatic Focus External Conductive Coating Rectangular Glass 4-1/2" Neck
Length Spherical Faceplate Aluminized No Ion Trap Gray Filter Glass 14-5/16" x 11-1/8" Picture
ELECTRICAL: MAXIMUM RATINGS: Cathode Coated Unipotential Design
Cathode Values Heater: Anode Voltage* 16000 max, Volts Voltage (acorde) + v v v v i v v v v e
6.3 Volts Grid 4 Voltage: Current + oo v m i t v e v t s t a a s a s b a n a 0.6 Ampere Positive Value 00t
1000 max, Volts Direct Inter-electrode Capacitances: Negative Value 500 max. Volts Grid 1 to
all other Electrodes. [wuf Grid 2 Voltage. 00 500 max. Volts Cathode to all other
Electrodes 5 vof Grid | Voltage: External Conductive Coating: Negative Bias Value 'e 140 max.
Volts Maximum cuivin v i v e v 1500 vuf Positive Peak Value

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
Heater: Ancde Yaltage*	16000 V	Heater: Ancde Yaltage* 16000 max, Volts
Voltage (ocorde) + v v v v i v v v v e	4 V	Voltage (ocorde) + v v v v i v v v v e 6.3 Volts Grid 4 Voltage:
CURrent + oo v m it v e vt st aasasbana	1000 A	CURrent + oo v m it v e vt st aasasbana 0.6 Ampere Positive Value 00t 1000 musx, Yolts
Diract tnterelectrede Capacitances: Negotive Value	500 V	Diract tnterelectrede Capacitances: Negative Value 500 max. Volts
Maximum . . . cuivin v i v e v	0 V	Maximum . . . cuivin v i v e v 1500 vuf Positive Paak Value 0 max, Volts
Minimum , - bes e b e	1000 pF	Minimum , - bes e b e 1000 uuf Paak Heater- Cathode Voltage:
Vartical Angle, approx.. v v o v a v v v v an	14000 V	Vartical Angle, approx.. v v o v a v v v v an 68 Anode Voltage 00t 14000 Volts
Diagonal Angle, approx. o0 vu	350 V	Diagonal Angle, approx. o0 vu 90¢ Grid 4 Voltage + . . , vvuverasa..=50t0 +350 Volis
o No Magnet Required Grid	450 V	o No Magnet Required Grid 2 Voltage d v v e vvvnennean 450 Yolts
Grid	105 V	Grid 1 Voltoge for Roster Cutoffm ... 39 to 105 Volts
Height. . . . i ittt e i e i i cne e	10000 ohm	Height. . . . i ittt e i e i i cne e 11-1/8* Min. Grid 4 Circuit Resistonced 10000 ohms
Diagonal , ... i v v e v e	159716 V	Diagonal , ... i v v e v e 159716 Min. * Brilliance and definition decreass with decreasing cnode voltage.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Faceplate . . . v v i ann Spherical Outer & Inner Surfaces In general, gnods voltage should not be less than	10000 V	Faceplate . . . v v i ann Spherical Outer & Inner Surfaces In general, gnods voltage should not be less than 10000 volts.
a4 Isrecommended that Grid	2 mm	a4 Isrecommended that Grid 2 be aporated at a voltage greater than
300 volts since resolution is affected below this level.	300 V	300 volts since resolution is affected below this level.
17.6 kilovolts (absolute value), shisiding of the tube for xeray radi-	17.6 V	17.6 kilovolts (absolute value), shisiding of the tube for xeray radi-
age in excess of	16 V	age in excess of 16 kilovolts,
NOTYE: It is recommended that centaring magnets be within	18 mm	NOTYE: It is recommended that centaring magnets be within 2-11/18"

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Dimensions: Geid) Circuit Resistance v o a0 v v	1.5 Mohm	Screen Dimensions: Geid) Circuit Resistance v o a0 v v 1.5 mox. Megohms
Scraen Area, Min, . . . v, crenoeran	10000 Inches	Scraen Area, Min, . . . v, crenoeran 149 Sq. Inches Grid 2 Circuit Resistanced 10000 ohms