



ELECTRONIC TUBE REFERENCE

12BKP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Cathode-ray display tube documented by manufacturer data for type 12BKP4; available extracted source information is sparse, so no more specialized application or construction claim is made.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
<i>Published Westinghouse ratings, characteristics, typical operating conditions, and capacitances extracted from supplied source.</i>	

Twelve-inch monochrome television picture tube with low-voltage electrostatic focus and 110-degree magnetic deflection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	450 mA	—
ControlledWarmupHeater	1 boolean	—
Heater Warmup Time	11 s	—
FocusingMethod	LowVoltageElectrostatic	—
DeflectionMethod	Magnetic	—
DeflectionAngleDiagonal	110 degree	—
DeflectionAngleHorizontal	99 degree	—
DeflectionAngleVertical	80 degree	—
Phosphor	Aluminized P4	—
Cathode To All Capacitance	5 pF	—
Grid1 To All Capacitance	6 pF	—
ExternalCoatingToAnodeCapacitanceMinimum	500 pF	—
ExternalCoatingToAnodeCapacitanceMaximum	800 pF	—
UsefulScreenHorizontal	10.125 in	—
UsefulScreenVertical	7.625 in	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	15000 V	—
AnodeVoltageMinimum	9000 V	—
FocusElectrodeVoltageMinimum	-550 V	—
FocusElectrodeVoltageMaximum	1100 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid2VoltageMaximum	70 V	—
Grid2VoltageMinimum	20 V	—
Heater Voltage Minimum	5.67 V	—
Heater Voltage Maximum	6.93 V	—
HeaterCathodeVoltageMaximum	450 V	Warmup<=15s;HeaterNegative
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
Grid1CircuitResistanceMaximum	1.5 Mohm	—
Grid2And4CircuitResistanceMinimum	10000 ohm	—
Anode Voltage	12000 V	—
FocusElectrodeVoltage	0 to 400 V	—
Grid2 Voltage	50 V	—
CathodeVoltageForRasterCutoff	35 to 55 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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