

ELECTRONIC TUBE REFERENCE

17BSP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Seventeen-inch direct-view television picture tube with electrostatic focusing, magnetic deflection, and a white P4 screen behind gray filter glass. Typical anode operation is about 14 kV, and no ion-trap magnet is required.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B6-63	BASE PINS	6
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
Direct-view television CRT with electrostatic focus and magnetic deflection. P-4 white screen data and CRT electrode ratings are preserved in parameters; CRT maximum anode voltage is promoted to MaxPlateVoltage.	

17BSP4 is a direct-view cathode-ray picture tube designed for television service. It uses electrostatic focusing and magnetic deflection, with a P-4 white picture screen with a gray filter faceplate. The datasheet publishes high-voltage anode operation, grid-electrode ratings, heater-cathode limits, deflection data, and operating characteristics. It uses No ion-trap magnet required.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Anode voltage	16 V	Published CRT operating condition
Grid 2 voltage	500 V	Published CRT operating condition



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC grid 2 voltage	500 V	—
Maximum DC grid 4 voltage	-500–1000 V	—
Maximum grid 1 negative-bias voltage	140 V	NegativeBias
Maximum grid 1 positive-bias voltage	0 V	PositiveBias
Maximum grid 1 positive-peak voltage	2 V	PositivePeak
Peak heater-cathode voltage	410 V	HeaterNegativeWarmup
Peak heater-cathode voltage	180 V	HeaterNegativeAfterWarmup

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak heater-cathode voltage	180 V	HeaterPositive
DC anode voltage	14000 V	TypicalOperation
DC grid 4 voltage	-50-350 V	TypicalOperation
DC grid 2 voltage	300 V	TypicalOperation
DC grid 1 voltage	-28--72 V	TypicalOperation
Faceplate transmission at center	74 %	Approximate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Horizontal deflection angle	85 degrees	Approximate
Vertical deflection angle	68 degrees	Approximate
Diagonal deflection angle	90 degrees	Approximate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	5 pF	Approximate
Grid 1 to all other electrodes capacitance	6 pF	Approximate
External conductive coating to anode capacitance	1500 pF	Maximum
External conductive coating to anode capacitance	1200 pF	Minimum

TUBE TINKER

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

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