



ELECTRONIC TUBE REFERENCE

30BP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Large round direct-view television CRT with gray-filter faceplate, magnetic focusing and deflection, unipotential cathode, and external single-field ion trap. Its high-voltage anode system is rated around 18 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	6.3 V / 600 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	18000 V
MAXIMUM SCREEN VOLTAGE	410 V
MAXIMUM HEATER-CATHODE VOLTAGE	150 V
<i>Published promoted fields populated from Maximum Ratings / Characteristics / Typical Operation headings.</i>	

The 30BP4 is a large round direct-view television CRT with a grey-filter faceplate, magnetic focusing and deflection, a unipotential cathode and an external single-field ion trap.



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
Grid2VoltageMaximum	410 V	CRT
HeaterCathodeVoltageMaximum	150 V	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	5 pF	WholeTube
Grid 1 to all other electrodes capacitance	7 pF	WholeTube
Focusing method	Magnetic	WholeTube
Deflecting method	Magnetic	WholeTube
Diagonal deflection angle	90 degree	WholeTube
Phosphor color	White	Screen
Persistence	Medium	Screen

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC anode/accelerator voltage	30000 V	WholeTube
Maximum DC grid 2 voltage	410 V	WholeTube
Maximum negative grid 1 bias magnitude	125 V	WholeTube
Maximum positive peak grid 1 voltage	2 V	WholeTube
Maximum heater-cathode voltage during warm-up	410 V	Warmup15Seconds
DC anode/accelerator voltage	12000 V	TypicalOperation
DC grid 2 voltage	300 V	TypicalOperation