

Twenty-seven-inch direct-view monochrome television picture tube with magnetic deflection and high-voltage operation. Manufacturer documentation provides focusing, optical, and electrical characteristics for large-screen receiver display service.

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

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	18000 V
Direct-view television CRT; high-voltage electrode rating mapped to MaxPlateVoltage as the section high-voltage limit.	

Direct-view cathode-ray picture tube intended for television display service. The supplied Tung-Sol datasheet provides electrical ratings, operating conditions, capacitances, optical characteristics, focusing and deflection information. Features an aluminized screen where specified by this designation.



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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Cathode Capacitance	5 pF	Approximate

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HighVoltageElectrodeMaximum	18000 V	CRT



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RECTANGULAR METAL CONSTRUCTION	10	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DIRECT INTERELECTR ODE CAPACITANCES (APPROX.) – value 1	1	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DIRECT INTERELECTR ODE CAPACITANCES (APPROX.) – value 2	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID #1 TO ALL OTHER ELECTRODES – value 1	1	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
GRID #1 TO ALL OTHER ELECTRODES – value 2	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
GRID #1 TO ALL OTHER ELECTRODES – value 3	6	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
PHOSPHOR NUMBER	4	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.) – value 1	11 percent	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.) – value 2	66 percent	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
HEATER	7.3 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
HEATER	0 mA	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
HEATER POSITIVE WITH RESPECT TO CATHODE	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
BBEC AU SE THE RATING OF THIS TUBE PERMITS ANODE VOLTAGES AS NI GX AS 19.8 KV, SMIEL DI NG OF %-RAV – value 1	0 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
BBEC AU SE THE RATING OF THIS TUBE PERMITS ANODE VOLTAGES AS NI GX AS 19.8 KV, SMIEL DI NG OF %-RAV – value 2	19.8 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
BBEC AU SE THE RATING OF THIS TUBE PERMITS ANODE VOLTAGES AS NI GX AS 19.8 KV, SMIEL DI NG OF %-RAV – value 3	0 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
R AOI ATION FROM TXE TUBE MAY BE NECESSARY. THIS PR ELAU TI ON SHOULD RE OB SER YEO wXEN THE ANODE – value 1	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
R AOI ATION FROM TXE TUBE MAY BE NECESSARY. THIS PR ELAU TI ON SHOULD RE OB SER YEO wXEN THE ANODE – value 2	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC COLLECTOR IGRID #5 VOLTAGE – value 1	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC COLLECTOR IGRID #5 VOLTAGE – value 2	5 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC COLLECTOR IGRID #5 VOLTAGE – value 3	16000 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC GRID #2 VOLTAGE – value 1	2 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC GRID #2 VOLTAGE – value 2	300 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC GRID #1 VOLTA GE C – value 1	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC GRID #1 VOLTA GE C – value 2	3 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC GRID #1 VOLTA GE C – value 3	3 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
DC FOCUSING COIL CURRENT (APPROX.)D	11 mA	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
ION TRAP MAGNET (RATED STRENGTH) – value 1	10	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
ION TRAP MAGNET (RATED STRENGTH) – value 2	506	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
L VI SU AI EXiINCTI OX OF FOCUSED RASTER. – value 1	1	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
L VI SU AI EXiINCTI OX OF FOCUSED RASTER. – value 2	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
L VI SU AI EXiINCTI OX OF FOCUSED RASTER. – value 3	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
D FOR ST AMDARD FOCUS COIL f109, OR EQUIVAI ENT, WI TX THE COMBINED GRID fl BIAS VOLTAGE AMO VIDEO – value 1	9 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
D FOR ST AMDARD FOCUS COIL f109, OR EQUIVAI ENT, WI TX THE COMBINED GRID fl BIAS VOLTAGE AMO VIDEO – value 2	0 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
SIGMAL VOLTAGE AO JU STED TO PRODUCE A MI GXLI GNT BR IGN THE 55 OF j0 F00T LAMBERTS ON A 2j 1/16" BY – value 1	2 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
SIGMAL VOLTAGE AO JU STED TO PRODUCE A MI GXLI GNT BR IGN THE 55 OF j0 F00T LAMBERTS ON A 2j 1/16" BY – value 2	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
SIGMAL VOLTAGE AO JU STED TO PRODUCE A MI GXLI GNT BR IGN THE 55 OF j0 F00T LAMBERTS ON A 2j 1/16" BY – value 3	16 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
18 1/B" PICTURE SIZE. DISTANCE FROM REFER EMCE LIME TO CENTER OF AIR GAP ON FOCUS COIL SN ALL BE – value 1	11	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
18 1/B" PICTURE SIZE. DISTANCE FROM REFER EMCE LIME TO CENTER OF AIR GAP ON FOCUS COIL SN ALL BE – value 2	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
18 1/B" PICTURE SIZE. DISTANCE FROM REFER EMCE LIME TO CENTER OF AIR GAP ON FOCUS COIL SN ALL BE – value 3	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM DC GRID #3, COLLECTOR VOLTAGE AB – value 1	3 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM DC GRID #3, COLLECTOR VOLTAGE AB – value 2	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM DC GRID #3, COLLECTOR VOLTAGE AB – value 3	0 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM OC GRID #2 VOLTAGE – value 1	0 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM OC GRID #2 VOLTAGE – value 2	2 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM OC GRID #2 VOLTAGE – value 3	500 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM GRID #i VOLTAGE	1 V	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM GRID #1 CIRCUIT RESISTANCE – value 1	1	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM GRID #1 CIRCUIT RESISTANCE – value 2	5	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.
MAXIMUM GRID #1 CIRCUIT RESISTANCE – value 3	0	Published CRT datasheet value; multiple values on one source row represent separate conditions, limits, or nominal values.