



ELECTRONIC TUBE REFERENCE

21AMP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-one-inch direct-view monochrome television picture tube designed for large-screen receiver service. Manufacturer data documents its magnetic scanning system, high-voltage operation, and picture-tube optical and electrical characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
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 SCREEN VOLTAGE	7 V
<i>CRT ratings, operating conditions, capacitances, optical and deflection data retained as parameters.</i>	

Direct-view cathode-ray picture tube for television display service. Electrical ratings, operating conditions, capacitances, optical data, and construction details were extracted from the supplied datasheet.



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
Heater current	600 mA	Nominal
Typical grid 2 voltage	300 V	Typical operating conditions

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vertical deflection angle	68 deg	—
Diagonal deflection angle	90 deg	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	5 pF	Approximate
Grid 1 to all other electrodes	6 pF	Approximate



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
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.)	5 percent	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
HEATER	1 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
OC FOCUSING COIL CURRENT (APPROX.)C – value 1	1 mA	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
OC FOCUSING COIL CURRENT (APPROX.)C – value 2	1 mA	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
CFOR STANDApD FOCUS LOII NI09r 00. EQUIVAL EN T r WI TM THE COMBINED GRID NI BIAS VOLTAGE AND YI DEO	0 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
SIGNAL VOLTAGE ADJUSTED 70 PRODUCE A MI GHGHTX BpIGMTNESS OF j0 FOOT LAMBERTS ON A 15• BY – value 1	70 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
SIGNAL VOLTAGE ADJUSTED 70 PRODUCE A MI GHGHTX BpIGMTNESS OF j0 FOOT LAMBERTS ON A 15• BY – value 2	15 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
19 1/8" PICTURE. SIZE. DISTANCE FROM REFERENCE LINE i0 CENTER OF AIR GAP ON FOCUS LULL SN ALL NE – value 1	19	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
19 1/8" PICTURE. SIZE. DISTANCE FROM REFERENCE LINE i0 CENTER OF AIR GAP ON FOCUS LULL SN ALL NE – value 2	1	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
19 1/8" PICTURE. SIZE. DISTANCE FROM REFERENCE LINE i0 CENTER OF AIR GAP ON FOCUS LULL SN ALL NE – value 3	8	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM D.: GRID #2 VOLTAGE – value 1	2 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MAXIMUM D.: GRID #2 VOLTAGE – value 2	7 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5 V	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.