

ELECTRONIC TUBE REFERENCE

21AMP4A

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
CRT ratings, operating conditions, capacitances, optical and deflection data retained as parameters.	

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

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

1966 Tung Sol Electronic Tubes 4 of 4

[SOURCE PDF](#)

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.

TUBE TINKER

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

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