ELECTRONIC TUBE REFERENCE

21CVP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Large P4 monochrome television picture tube documented for high-voltage direct-view service, using magnetic deflection and manufacturer-specified focusing and beam-control arrangements for type 21CVP4.

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	20000 V
MAXIMUM SCREEN VOLTAGE	550 V

Published promoted fields populated by printed ratings/characteristics headings.

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

SOURCE PDF

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**
HighVoltageAnodeMaximum	**20000 V**	CRT

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
CathodeToOtherElectrodesCapacitance	**5 pF**	Approximate

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 4 of 4

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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**
GRID Ni TO ALl OTHER ELECTRODES	**6**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	**2000**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
HEATER	**6.3 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER POSITIVE WITH RESPECT TO CATHODE	**200 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
DC GRID ,Y4 VOLTAGE — value 1	**64 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
DC GRID ,Y4 VOLTAGE — value 2	**352 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
OC GRID i'2 VOLTAGE — value 1	**2 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
OC GRID i'2 VOLTAGE — value 2	**3 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
DC GRID ,Y1 ~V OLTAGE B — value 1	**2 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
DC GRID ,Y1 ~V OLTAGE B — value 2	**72 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
GR I O k 2 — value 1	**2**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
GR I O k 2 — value 2	**5**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	**250 mA**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MAXIMUM DC ANODE VOLTAGE	**22 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MAXIMUM DC GRID N4 VOLTAGE A	**550 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.
MAXIMUM DC GRID N2 VOLTAGE	**550 V**	Published CRT datasheet value; multiple values on a row correspond to separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM GRID ki CIRCUIT RESISTANCE	**1.5 mA**	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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