ELECTRONIC TUBE REFERENCE

5CP12

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch special-purpose direct-view oscilloscope CRT with electrostatic focusing and deflection plus post-deflection acceleration. Its P12 orange long-persistence screen provides extended trace visibility.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
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

No fixed ratings recorded.

CRT electron-gun/display section.

Five-inch special-purpose direct-view CRT with electrostatic focus/deflection and post-deflection acceleration.

SOURCE OPERATING CONDITIONS

SOURCE PDF

1965 Sylvania Electronic Tubes Vol3

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	**6.3 V**	—
Heater Current	**600 mA**	Approximate
Focusing Method	**Electrostatic text**	—
Deflection Method	**Electrostatic text**	—
Fluorescence	**Orange text**	—
Persistence	**Medium Long text**	—
Cathode-to-All Capacitance	**9 pF**	Approximate
Grid1-to-All Capacitance	**8 pF**	Approximate
Deflection Plates 1-2 Capacitance	**2 pF**	Approximate
Deflection Plates 3-4 Capacitance	**2 pF**	Approximate
Deflecting Plate 1-to-All Capacitance	**9 pF**	Approximate
Deflecting Plate 2-to-All Capacitance	**9 pF**	Approximate
Deflecting Plate 3-to-All Capacitance	**7 pF**	Approximate
Deflecting Plate 4-to-All Capacitance	**8 pF**	Approximate

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode3 Voltage	**4000 V**	—
Maximum Anode2 Voltage	**2000 V**	—
Maximum Anode1 Voltage	**1000 V**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Grid1 Negative Bias	**200 V**	—
Maximum Grid1 Positive Peak	**2 V**	—
Maximum Heater-Cathode Voltage	**125 V**	EitherPolarity
Maximum Anode2-to-Deflection-Plate Voltage	**500 V**	—
Anode3 Voltage	**4000 V**	—
Anode2 Voltage	**2000 V**	—
Focus Voltage Minimum	**375 V**	Anode1
Focus Voltage Maximum	**690 V**	Anode1
Grid1 Cutoff Voltage Minimum	**-90 V**	—
Grid1 Cutoff Voltage Maximum	**-30 V**	—
Deflection Factor Plates 1-2	**92 V/in**	—
Deflection Factor Plates 3-4	**78 V/in**	—
Maximum Grid1 Circuit Resistance	**1.5 Mohm**	—
Maximum Deflection Circuit Resistance	**5 Mohm**	—

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker