ELECTRONIC TUBE REFERENCE

3RP

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Three-inch cathode-ray tube for oscilloscope and instrument display service, using electrostatic focusing and electrostatic deflection. Its specified screen designation identifies the phosphor variant within this compact oscillographic family.

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; CRT-specific electrical ratings, capacitances, focus and deflection data are stored in TUBE_SECTION_PARAMETER.

3-inch direct-view round electrostatic-focus, electrostatic-deflection CRT family for oscillographic display.

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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
Focusing method	**1 code**	Electrostatic
Deflection method	**1 code**	Electrostatic
Deflection factor D1-D2 minimum	**146 V/in**	—
Deflection factor D1-D2 maximum	**198 V/in**	—
Deflection factor D3-D4 minimum	**104 V/in**	—
Deflection factor D3-D4 maximum	**140 V/in**	—
Useful screen / scan	**1 code**	3-inch round direct-view screen
Phosphor designation	**1 code**	Family sheet: P1/P4 variants

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage maximum	**2750 V**	—
Anode No. 2 / accelerator voltage	**2000 V**	—
Focusing electrode voltage maximum	**1100 V**	—
Focusing electrode voltage minimum	**330 V**	—
Focusing electrode voltage maximum	**620 V**	—
Grid No. 1 cutoff voltage minimum	**-135 V**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 cutoff voltage maximum	**-45 V**	—
Peak heater-to-cathode voltage	**140 V**	—
Peak voltage between accelerator and any deflection plate	**550 V**	—
Grid No. 1 negative bias maximum	**220 V**	—