ELECTRONIC TUBE REFERENCE

22CP19

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Large cathode-ray display tube using a P19 screen with orange long-persistence response, magnetic focusing and magnetic deflection, documented by Rauland with a 6.3 V, 0.6 A heater.

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 PLATE VOLTAGE	16000 V

CRT accelerator/final-anode maximum mapped to MaxPlateVoltage.

Twenty-two-inch magnetic-focus, magnetic-deflection round metal-envelope cathode-ray tube for radar applications with a long-persistence screen. Explicit co-designation of 22CP7 on the same approved datasheet.

SOURCE OPERATING CONDITIONS

1963 Rauland

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

1963 RAULAND

Section 1 · Cathode Ray

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	**6.3 V**	—
Heater current	**600 mA**	—
Maximum heater-cathode voltage	**180 V**	Heater positive to cathode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	**Magnetic**	—
Deflection method	**Magnetic**	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	**5 pF**	—
Grid 1 to all other electrodes capacitance	**6 pF**	—

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