



ELECTRONIC TUBE REFERENCE

5ECP11

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch P11 cathode-ray instrument tube for oscillograph or measurement display, with manufacturer-specified focusing, deflection, accelerating voltages, and phosphor characteristics for precision waveform presentation.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	30000 V
Published source ratings and characteristics promoted where applicable; additional electrical and operating data retained as parameters.	

High-resolution magnetic-focus, magnetic-deflection CRT with P11 screen for data-recognition and flying-spot-scanner applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Cathode Ray

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Cathode-ray display / television / instrumentation	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Magnetic	—
Deflection method	Magnetic	—
Deflection angle	50 deg	—
Resolution capability	2000 lines/in	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-all capacitance	4 pF	—
Cathode-to-all capacitance	3.5 pF	—
External coating capacitance minimum	400 pF	—
External coating capacitance maximum	800 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	27000 V	—
Grid1 visual-cutoff range	-50 to -90 V	—
Anode voltage minimum	20000 V	—
Anode voltage maximum	30000 V	—
Focus-coil current	200 mA	—