

ELECTRONIC TUBE REFERENCE

5EJP2

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch P2 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 / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
Published source ratings and characteristics promoted where applicable; additional electrical and operating data retained as parameters.	

Five-inch electrostatically focused and deflected precision-instrument CRT with P2 yellowish-green phosphor.

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	Electrostatic	—
Deflection method	Electrostatic	—
Line width	0.024 in	—
Horizontal deflection factor	9.4 to 12.5 V/cm	—
Vertical deflection factor	2.3 to 3.5 V/cm	—
Useful horizontal scan	10 cm	—
Useful vertical scan	6 cm	—
PDA helix resistance minimum	200 Mohm	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P2 yellowish-green	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-all capacitance	6 pF	—
Cathode-to-all capacitance	3.6 pF	—
X1-to-all capacitance	4.5 pF	—
X2-to-all capacitance	4.5 pF	—
X1-to-X2 capacitance	2.7 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Y1-to-all capacitance	3.8 pF	—
Y2-to-all capacitance	3.8 pF	—
Y1-to-Y2 capacitance	1.8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Post-accelerator voltage	15000 V	—
Helix lower-end voltage	1500 V	—
Pattern-adjustment voltage	70 V	—
Mean X deflection-plate potential	1500 V	—
Interplate shield voltage	1500 V	—
Mean Y deflection-plate potential	1500 V	—
Focus-electrode voltage range	375 to 625 V	—
Accelerator voltage	1500 V	—
Grid1 visual-extinction voltage range	-45 to -85 V	—
Heater-cathode voltage maximum cathode positive	200 V	—
Heater-cathode voltage maximum cathode negative	125 V	—
Deflection-plate to grid4 voltage maximum	500 V	—