



ELECTRONIC TUBE REFERENCE

22GP2

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

P2 radar cathode-ray display tube with electrostatic focusing and magnetic deflection, yellow-green fluorescence with green persistence, approximately 70-degree deflection, and typical 18 kV accelerator operation.

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*No fixed ratings recorded.**Radar CRT electron-gun/display section.*

Twenty-two-inch flat-face radar CRT with electrostatic focus, magnetic deflection, metal envelope, and aluminized screen.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Du Mont

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

1960 DU MONT

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Magnetic text	—
Phosphor	P2 text	—
Fluorescence	Yellow-green/green text	—
Persistence	Long text	—
Deflection Angle	70 deg	Approximate
Screen Construction	Aluminized/metal-backed text	—



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection Method	Magnetic text	—
Deflection Angle	70 deg	Approximate
Cathode-to-All Capacitance	5 pF	Approximate
Grid1-to-All Capacitance	6 pF	Approximate
Phosphor Number	2 text	—
Fluorescence	Yellow-Green text	—
Phosphorescence	Green text	—
Persistence	Medium text	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Accelerator Voltage	24000 V	—
Maximum Grid2 Voltage	800 V	—
Maximum Grid1 Negative Bias	125 V	—
Maximum Grid1 Positive Peak Voltage	2 V	—
Typical Accelerator Voltage	18000 V	RadarDisplay
Typical Grid2 Voltage	400 V	RadarDisplay
Grid1 Voltage Minimum	-70 V	RadarDisplay
Grid1 Voltage Maximum	-45 V	RadarDisplay
Focus Voltage Minimum	0 V	RadarDisplay
Focus Voltage Maximum	400 V	RadarDisplay
Modulation Voltage Maximum	35 V	100FootLamberts
Maximum Grid1 Circuit Resistance	1.5 Mohm	—