TECHNICAL INFORMATION



CATHODE RAY TUBE

TYPE

10QP7

Excellence in Electronics

The 10QP7 is a magnetic focus and magnetic deflection cathode ray tube having a long persistence cascade fluorescent screen. A special feature of the 10QP7 is that it produces a small spot of high intensity.

MECHANICAL DATA

BASE: Small Shell Duodecal 6-Pin CAP: Recessed Small Cavity TERMINAL CONNECTIONS:

Pin 1 Heater Pin 11 Cathode
Pin 2 Grid #1 Pin 12 Heater
Cap Grid #2 & Collector

MOUNTING POSITION: Any

GENERAL DATA

Phosphor #7
Fluorescence Blue
Phosphorescence Yellow
Persistence Long
Deflection Method Magnetic
Deflection Angle 50

ELECTRICAL DATA

HEATER CHARACTERISTICS:

Heater Voltage
Heater Current
Peak Heater - Cathode Voltage: Max.
Heater Negative with Respect to Cathode
Heater Positive with Respect to Cathode
Heater Negative with Respect to Cathode
Heater Positive with Respect to Cathode

175 volts DC

DIRECT INTERELECTRODE CAPACITANCES: (μμfds.) (approx.)

Grid ∦1 to all other electrodes 4.0
Cathode to all other electrodes 3.5

DESIGN CENTER MAXIMUM RATINGS:

Collector Voltage (including Grid #2)
Grid #1 Voltage:
Negative — Bias Value
Positive — Bias Value
Positive — Peak Value

20,000 volts DC
350 volts DC
volts DC
2 volts DC

CHARACTERISTICS AND TYPICAL OPERATION:

Collector Voltage (including Grid #2)

Grid #1 Voltage ⊕

Spot Position (undeflected)

20,000 volts DC

-63 to -147 volts DC

-590 inch max.

MAXIMUM CIRCUIT VALUES:

Grid #1 Circuit Resistance 1.5 meg. max.

⊕ Visual extinction of deflected focus spot.

For standard focus coil \$106 or equivalent, the focus coil current is approximately 190 MA. D.C. Grid \$1 bias voltage and video signal voltage adjusted for 100 microamperes of anode current. The distance from air gap in the focus coil to reference line is 3.25 inches.

Tentative Data

INDUSTRIAL TUBE DIVISION

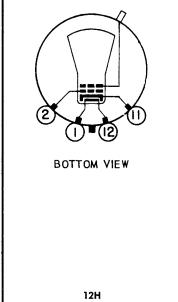
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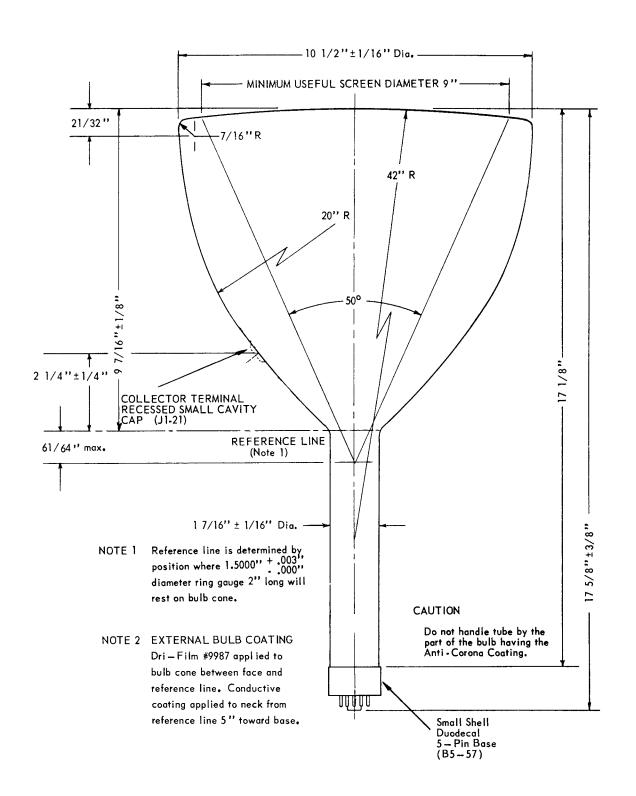
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