GENERAL DESCRIPTION

The CK3BAP7/QK545 is a cathode ray tube which is used as a simulator for CK6835. This tube may be utilized for visual inspection of the input signal and for determining the focus and deflection capabilities of the circuitry.

GENERAL CHARACTERISTICS

ELECTRICAL

Phosphor ............... P7
Heater
   Heater Voltage .............. 6.3 V±10%
   Heater Current ............ 0.6 A
Maximum Ratings
   Anode Voltage .............. 6000 Vdc
   Grid #1 (control electrode) Voltage
      Negative Bias ............. -125 Vdc
      Positive Bias ............ 0 Vdc
      Positive Peak Value ......... +2 V
Typical Operation Conditions
   (All Voltages Measured with Respect to Cathode)
   Anode Voltage .............. 3500 Vdc
   Cathode Current ............ 100 μA

MECHANICAL CHARACTERISTICS

Terminal Connections:

   Pin 1  Heater .............. Pin 7  no connection
   Pin 2  Grid #1 .............. Pin 8  no connection
   Pin 3  no connection ........ Pin 9  no connection
   Pin 4  no connection ........ Pin 10 no connection
   Pin 5  no connection ........ Pin 11 Cathode
   Pin 6  Anode ............... Pin 12 Heater
   Focusing ................. Magnetic
   Deflection ............... Magnetic
   Maximum Deflection Angle .... 20°
   Over-all Length ........... 13-3/4"
   Bulb Diameter ............. 3" Nominal
   Neck Diameter ............. 1-1/2" Maximum
   Screen Diameter (approx.) .... 1-3/4"
   Base ................. Small Shell Duodecal
   Mounting Position ........... Any
1) LOCATION OF DEFLECTION YOKE AND FOCUSING COIL MUST BE WITHIN THIS SPACE.

2) SOCKET FOR THIS BASE SHOULD NOT BE RIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN A CIRCLE CONCENTRIC WITH CONE AXIS AND HAVING A DIAMETER OF 2.0 D.

3) B12-43 12 PIN BASE.

LEADS
- TICKLER COIL
  #1 - F1
  RESISTANCE - 10 TO 50 OHMS (AT 20°C)
  MAX CURRENT - 30 mA RMS
  VOLTAGE RATING - 250 V

- FOCUS COIL
  #2 - F2
  RESISTANCE - 5000 TO 9000 OHMS (AT 20°C)
  MAX CURRENT - 25 mA dc
  VOLTAGE RATING - 250 V

NOTES
1) FOR USE WITH RECORDING STORAGE TUBES AND SIMULATORS
2) TICKLER COIL IS PROVIDED TO PERMIT COMPENSATING FOR IMPROPER FOCUS AT THE EDGES OF A PATTERN CAUSED BY THE VARIATION IN DISTANCE FROM THE CENTER OF DEFLECTION TO a) THE CENTER OF A STORAGE AREA OF A STORAGE TUBE, AND b) THE PERIPHERY OF A STORAGE AREA. THIS TICKLER COIL USEFUL ONLY FOR SLOW SCANNING SPEEDS.
3) WHEN NOT REQUIRED, THE TICKLER COIL MAY BE LEFT UNCONNECTED.
4) SHELL MATERIAL - ANNEALED SWEDISH IRON OR EQUIVALENT.

INDUSTRIAL TUBE DIVISION
RAYTHEON COMPANY
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