GENERAL DESCRIPTION

The CK3BCP7/QK767 is a cathode ray tube which is used as a simulator for the CK7571. 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 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 |
| Grid #2 | 1000 Vdc |
| Focus Anode Voltage | 4000 V |

Typical Operating Conditions

(All Voltages Measured With Respect to Cathode)

| Cathode | 0V |
| G1 (Control Grid) Cutoff | -30V |
| G2 | 400V |
| Anode | 3500V |
| Focus Anode |
| Electrostatic | 400V |
| Magnetic | 3500V |

MECHANICAL CHARACTERISTICS

Terminal Connections:

- Pin 1 Heater
- Pin 2 Grid #1
- Pin 3 no connection
- Pin 4 Anode 2 (focus anode)
- Pin 5 no connection
- Pin 6 Anode 1
- Focusing
- Deflection
- Maximum Deflection Angle | 30° |
- Over-all Length | 13-3/16” |
- Bulb Diameter | 3” Nominal |
- Neck Diameter | 1-1/2” Maximum |
- Screen Diameter | 2” (approx.) |
- Base |
- Mounting Position |

INDUSTRIAL TUBE DIVISION

55 CHAPEL ST., NEWTON 58, MASS.
NOTES
1) LOCATION OF DEFLECTION YOKE AND THE GAP OF THE 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 2000
3) B12-43 10 PIN BASE

LEADS
#1 - S1
#2 - F1
#3 - S2
#4 - F2

FICKLER COIL
RESISTANCE - 35 TO 50 OHMS (AT 20°C)
MAX CURRENT - 30 mA RMS
VOLTAGE RATING - 250 V
INDUCTANCE - 45 MILLIHENRIES APPROX

FOCUS COIL
RESISTANCE - 6500 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) FICKLER 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 PERIMETER OF A STORAGE AREA. THIS FICKLER COIL IS USEFUL ONLY FOR SLOW SCANNING SPEEDS
3) WHEN NOT REQUIRED, THE FICKLER COIL MAY BE LEFT UNCONNECTED
4) SHELL MATERIAL - ANNEALED SWEDISH IRON OR EQUIVALENT

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