

*Excellence in Electronics***CK3BCP7/
QK767****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.

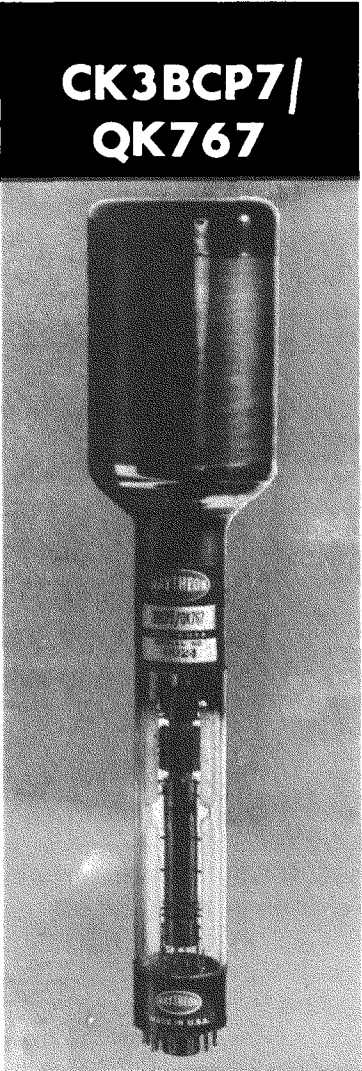
GENERAL CHARACTERISTICS**ELECTRICAL**

Phosphor	P7
Heater	
Heater Voltage	6.3 V $\pm$ 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:

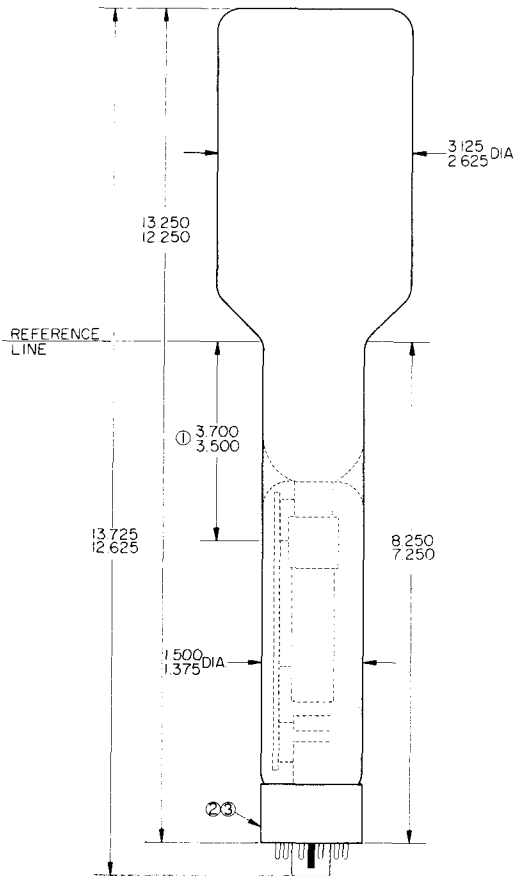
Pin 1 Heater	Pin 7 no connection
Pin 2 Grid #1	Pin 8 no connection
Pin 3 no connection	Pin 9 no connection
Pin 4 Anode 2 (focus anode)	Pin 10 Grid #2
Pin 5 no connection	Pin 11 Cathode
Pin 6 Anode 1	Pin 12 Heater
Focusing	Magnetic & Electrostatic
Deflection	Magnetic
Maximum Deflection Angle	30°
Over-all Length	13-3/16"
Bulb Diameter	3" Nominal
Neck Diameter	1-1/2" Maximum
Screen Diameter	2" (approx.)
Base	Small Shell Duodecal
Mounting Position	Any



STORAGE
TUBE
SIMULATOR



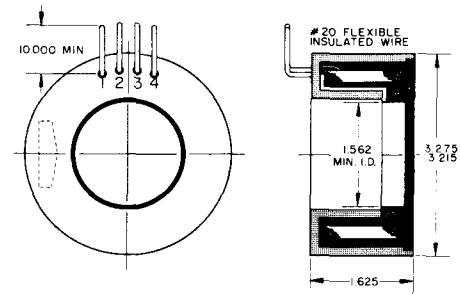
STORAGE TUBE SIMULATOR



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 2.000
- 3) B12-43 12 PIN BASE

BM-411 FOCUS COIL



LEADS

#1 - S1

#2 - F1

#3 - S2

#4 - F2

TICKLER 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 mAdc.

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

55 CHAPEL ST., NEWTON 58, MASS.