

*Excellence in Electronics***CK3BAP7/
QK545****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 $\pm$ 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

Typical Operation Conditions

(All Voltages Measured with Respect to Cathode)

Anode Voltage 3500 Vdc
Cathode Current 100 μ A

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

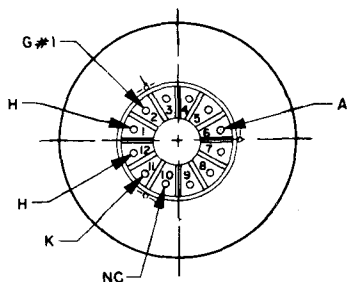
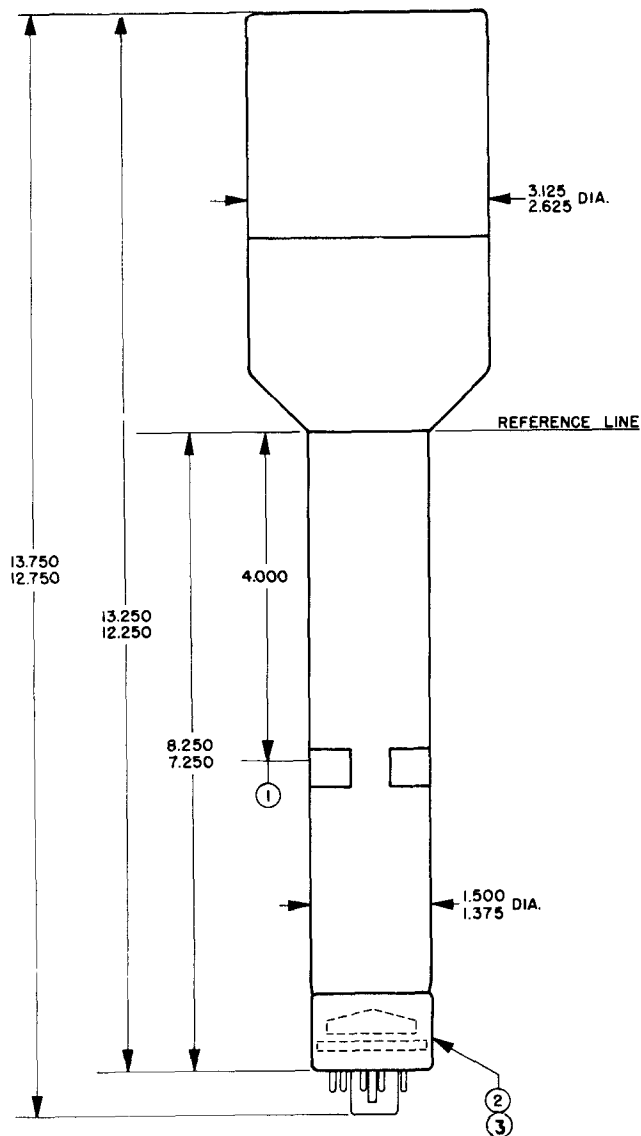
Focusing	Magnetic
Deflection	Magnetic
Maximum Deflection Angle	20°
Over-all Length	13-3/4"
Bulb Diameter	3" Nominal
Neck Diameter	1-1/2" Maximum
Screen Diameter (approx.)	1-3/4"
Base	Small Shell Duodecal
Mounting Position	Any

STORAGE
TUBE
SIMULATOR

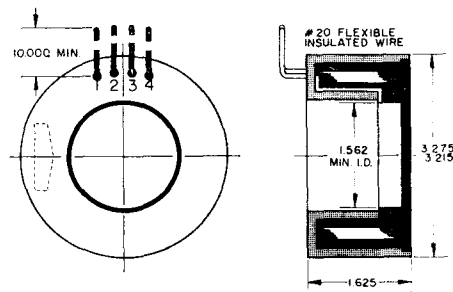


STORAGE TUBE SIMULATOR

- 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 2.000.
- 3) 812-43 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 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

55 CHAPEL ST., NEWTON 58, MASS.