TECHNICAL INFORMATION



Excellence in Electronics

CK3BAP7/ QK545



TUBE

SIMULATOR

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	Volta	ge		•						6.3 V±10%
Heater	Curre	nt		•	•	•	•			0.6 A
Maximum F	atings	5								
Anode	Volta	ge								6000 Vdc
Grid #1 (control electrode) Voltage										
Ne	gative	Bias	•				•			-125 Vdc
Pos	sitive	Bias		•						0 Vdc
Pos	sitive	Peαk	Valu	e			•	•	•	+2 V
Typical Op (All Vo					n Res	pect	to Co	ıthod	e)	
Anode Volt	αge									3500 Vdc
Cathode Ca	ırrent	•								100 μα

MECHANICAL CHARACTERISTICS

Terminal Connections:

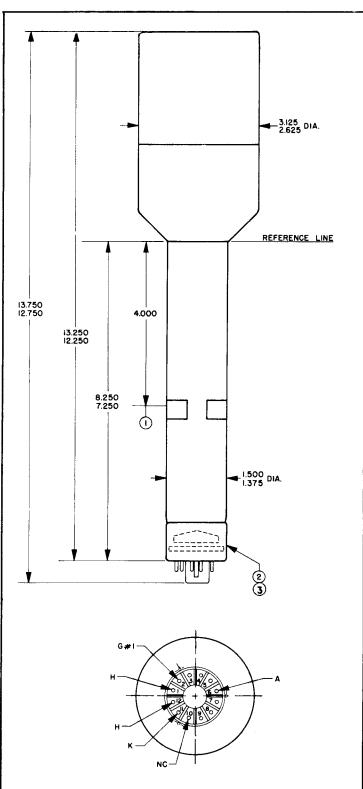
Pin l	Heater .				Pin 7 no connection
Pin 2	Grid #1				Pin 8 no connection
Pin 3	no connection	on			Pin 9 no connection
Pin 4	no connection	on		• .	Pin 10 no connection
Pin 5	no connection	on			Pin 11 Cathode
Pin 6	Anode .		•	•	Pin 12 Heater
Focus	ing	•			Magnetic
	ction .		•		Magnetic
Maximum Deflection Angle .					20°
Over-	all Length				13-3/4"
	Diameter .				3" Nominal
Neck	Diameter				l-1/2" Maximum
Screen Diameter (approx.) 1-3/4"					
Base $.$					Small Shell Duodecal
Moun	ting Position		•		Any

Printed in U.S.A.

INDUSTRIAL TUBE DIVISION

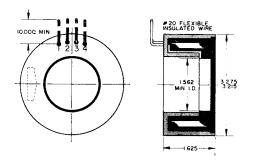


STORAGE TUBE SIMULATOR



- i) 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) BI2-43 I2 PIN BASE.

BM-411 FOCUS COIL



LEADS	TICKLER COIL
#1-Si	RESISTANCE-35 TO 50 OHMS (AT 20°C)
#2 - F1	MAX. CURRENT - 30 mA RMS
	VOLTAGE RATING - 250 V.
#3-S2	INDUCTANCE - 45 MILLIHENRIES APPROX
#4 - F2	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 EQUIVELENT.

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