



BCT1

# CATHODE-RAY COUNTER TUBE

Model No. BCT1

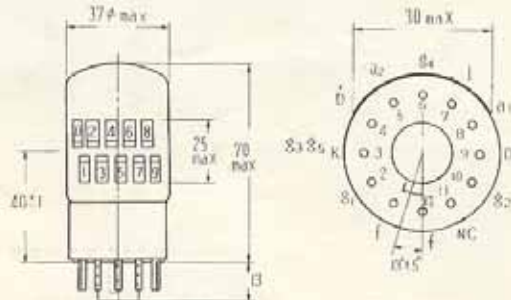


## GENERAL

BCT1 Cathode-ray Counter Tube is designed to make cathode-ray plates built-in numbered from 0 through 9 illuminant when hit by the electron beam in order to count and indicate in decade the number of electric pulse.

## FEATURES

Outside Dimensions:



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Base: Small Duodecal Base (Cell Diameter 34.5 mm)

Connection:

Pin Nos:	Electrodes:	Pin Nos:	Electrodes:
1.	Heater (f)	8.	Reset Anode (a <sub>1</sub> )
2.	Control Grid (g <sub>1</sub> )	9.	Left Deflection Electrode (D)
3.	Cathode and Suppressor Grid (K, g <sub>a</sub> , g <sub>s</sub> )	10.	Accelerating Electrode (g <sub>2</sub> )
4.	Right Deflection Electrode (D')	11.	No Connection
5.	Anode (a <sub>2</sub> )	12.	Heater (f)
6.	Slotted Electrode (g <sub>4</sub> )		
7.	Conducting Layer coated with fluorescent material (I)		

Electrical Characteristics:

1. Filament Voltage	E <sub>f</sub> 6.3V
2. Filament Current	I <sub>f</sub> 0.3A
3. Supply Voltage	E <sub>bb</sub> 300V
4. Cathode Current	I <sub>k</sub> 0.95mA
5. Control Grid Voltage	E <sub>g<sub>1</sub></sub> 11.9V ± 1.5V
6. Accelerating Electrode Voltage	E <sub>g<sub>2</sub></sub> 300V
7. Left Deflecting Electrode Voltage	E <sub>v</sub> 156V ± 2.5V
8. Conducting-layer Voltage	E <sub>l</sub> 300V
9. Cathode Resistor	R <sub>k</sub> 15kΩ ± 1%
10. Anode Resistor	R <sub>a<sub>2</sub></sub> 1MΩ ± 1%
11. Reset Anode Resistor	R <sub>a<sub>1</sub></sub> 39kΩ ± 10%
12. Counting Range	1-30,000 PPS

Input Wave Form



Wave Front      Wave Rest

$$\tan \alpha > 20.10^9 \text{ V/sec}$$

$$\tan \beta < 2.10^9 \text{ V/sec}$$

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