



BCT1

CATHODE-RAY COUNTER TUBE

Model No. BCT1

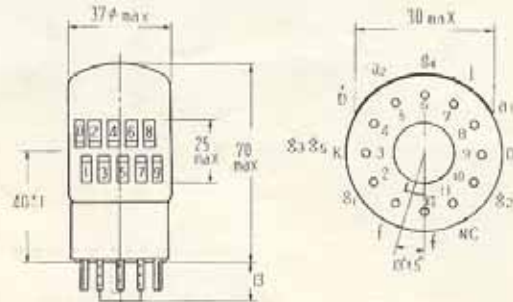


GENERAL

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 ₁)
2.	Control Grid (g ₁)	9.	Left Deflection Electrode (D)
3.	Cathode and Suppressor Grid (K, g _a , g _s)	10.	Accelerating Electrode (g ₂)
4.	Right Deflection Electrode (D')	11.	No Connection
5.	Anode (a ₂)	12.	Heater (f)
6.	Slotted Electrode (g ₄)		
7.	Conducting Layer coated with fluorescent material (I)		

Electrical Characteristics:

1. Filament Voltage	E _f 6.3V
2. Filament Current	I _f 0.3A
3. Supply Voltage	E _{bb} 300V
4. Cathode Current	I _k 0.95mA
5. Control Grid Voltage	E _{g1} 11.9V ± 1.5V
6. Accelerating Electrode Voltage	E _{g2} 300V
7. Left Deflecting Electrode Voltage	E _v 156V ± 2.5V
8. Conducting-layer Voltage	E _l 300V
9. Cathode Resistor	R _k 15kΩ ± 1%
10. Anode Resistor	R _{a2} 1MΩ ± 1%
11. Reset Anode Resistor	R _{a1} 39kΩ ± 10%
12. Counting Range	1-30,000 PPS

Input Wave Form



Wave Front Wave Rest

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

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

KOBE KOGYO CORPORATION

Main Office 5, Wadayama-dori 1-chome, Hyogo-ku, Kobe, Japan.
Tel. ☎ 2457-9

Cable Address: "KOBKOGYO KOBE"

Branch Office 7, Yaesu 3-chome, Chuo-ku, Tokyo, Japan.
Tel. ☎ 7221-5

Cable Address: "KOBKOGYOCORP TOKYO"

Sales Offices Sapporo, Sendai, Nagoya & Fukuoka.

Kobe Plant Hyogo-ku, Kobe, Japan.

Osaka Plant Okubo-cho, Akashi, Japan.