

Type CBT Series



The CBT series of resistors is constructed utilising solid carbon composition, which is the traditional medium for absorbing high energy pulses, in cases of high inrush current. These resistors have evolved over many years to have excellent pulse withstand capabilities, whilst remaining very stable. These improved characteristics have been achieved by prudent selection of materials of optimum physical properties and by advances in the manufacturing process.

Key Features

- Designed for Pulse Withstand
- Range of Resistance Tolerances
- Solid Carbon Composition
- Low Cost, High Performance
- Two Sizes Available
- Wide Range of Resistance Values
- Supplied Ammo Pack in boxes of 2000

Carbon Composition Resistors



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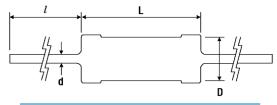
Characteristics -Electrical

	CBT25	CBT50		
Power at 70°C Ambient:	0.25 Watts Derating to 0 at +125°C	0.5 Watts Derating to 0 at +125°C		
Maximum Voltage:	250 Volts	350 Volts		
Resistance Range:	1R0 - 5M6	1R0 - 22M		
Resistance Values:	5% E24 Series 10% E1	2 Series 20% E6 Series		
Voltage Coefficient:	± 0.035%/V	± 0.035%/V		
Limiting Element Voltage:	250 Volts	350 Volts		
Maximum Overload Voltage:	400 Volts	700 Volts		
Insulation Resistance:	1000 M minimum			

Characteristics -Environmental

Operating Temperature Range:	-55°C to +125°C	
Temperature Cycles: (-55°C to +125°C, 5 cycles)	Δ R/R ± 2%	
Load Life (1000 hours at 70°C):	ΔR/R ± 10%	
Resistance to Solder Heat: (350°C for 3 seconds)	ΔR/R ± 3%	
Short Time Overload: (2.5 x Rated Power for 5 seconds)	ΔR/R ± 2%	
Humidity (40°C, 95%RH, 240 hrs):	ΔR/R ± 3%	

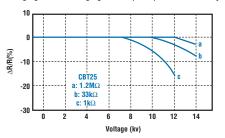
Dimensions-

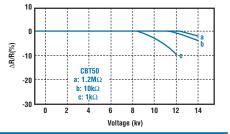


Style	L	D	I	d
CBT25	6.3 ± 0.7	2.4 ± 0.1	27 min.	0.6
CBT50	9.5±0.8	3.6±0.2	25 min.	0.7

Pulse Withstand Characteristics

Charging and Discharging a 2000 pF Capacitor for 100 Cycles





How to Order



Literature No. 1773192 Issued: 12-05 Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

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