

Type CBT Series

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



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.

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°	% E12 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		

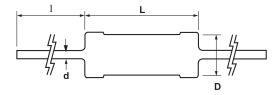
Characteristics - Environmental

Operating Temperature Range:	-55°C to +125°C	
Temperature Cycles: (-55°C to +125°C, 5 cycles)	ΔR/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)		
Humidity (40°C, 95%RH, 240 hrs):	ΔR/R ± 3%	



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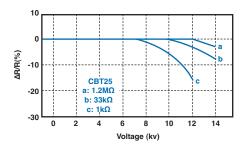
Dimensions

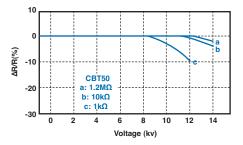


Style	L	D	I	d
CBT25	6.3 ± 0.7	2.4 ± 0.1	27 min.	0.6
CBT50	9.5±0.8	3.6±0.2	25 min.	0.7

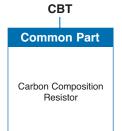
Pulse Withstand Characteristics

Charging and Discharging a 2000 pF Capacitor for 100 Cycles

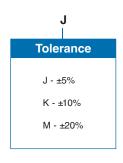




How to Order







10K
|
Resistance Value
 1 ohm
 (1 ohm) 1R0
 1K ohm
 (1000 ohms) 1K
 100K ohm
 (100000 ohms) 100K
 1M ohm
 (1000000 ohms) 1M

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