

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 | | |

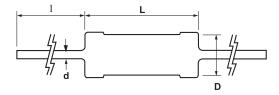
Characteristics - Environmental

| 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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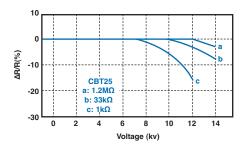
Dimensions

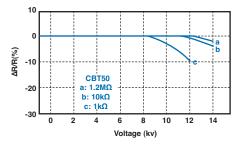


| Style | L | D | I | d |
|-------|-----------|-----------|---------|-----|
| CBT25 | 6.3 ± 0.7 | 2.4 ± 0.1 | 27 min. | 0.6 |
| CBT50 | 9.5±0.8 | 3.6±0.2 | 25 min. | 0.7 |

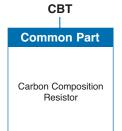
Pulse Withstand Characteristics

Charging and Discharging a 2000 pF Capacitor for 100 Cycles

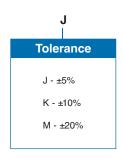




How to Order







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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RC14JB12R0 RC14JB180R RC1/2331KTD RC20GF470JTRLF RC1/4274KTD RC1/2475KTB RC1/2334KB RC1/2166KTD

RC1/2102JTD RC1/22R4JB RC07GF510JTR RCC025 2R7 J B CBT50J6K8 OA182KE OA682KE OD130JE OD222J OF106KE

CBT25J680K CBT25J68K CBT25J6R8 CBT50J1M5 CBT50J27R CBT50J330K CBT50J47R CBT50J4R7 CBT50J6M8 CF1/4W-10M±5%

CF1/4W-200K±5%T52 CFR01SJ0101A10 CFR01SJ0102A10 CFR01SJ018JA10 CFR01SJ0202A10 CFR01SJ0304A10 CFR01SJ0361A10

CFR01SJ0393A10 CFR01SJ0470A10 CFR01SJ051JA10 CFR01SJ0560A10