

CB Series

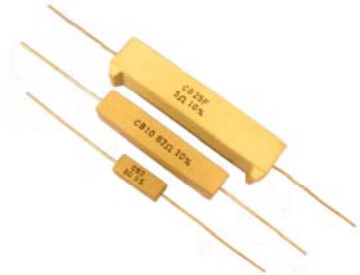
Ceramic Housed Wirewound with Axial Leads

Stackpole Electronics, Inc.

Resistive Product Solutions

Features:

- Fireproof power wirewound
- High thermal conductivity
- Different element(resistor) available:
- precision / ceramic & metal oxide
- Non-inductive styles available
- Body standoffs available; add "F" after CB
- RoHS compliant / lead-free



| Electrical Specifications | | | | | |
|---------------------------|-----------------------------|------------------------------|---------|------------|------------|
| Type / Code | Power Rating (Watts) @ 70°C | Ohmic Range(Ω) and Tolerance | | | |
| | | 0.5% | 1% | 5% | 10% |
| CB 2 | 2 | - | - | 0.1 - 300 | 0.1 - 300 |
| CB 3 | 3 | - | - | 0.1 - 680 | 0.1 - 680 |
| CB 5 | 5 | - | - | 0.1 - 680 | 0.1 - 680 |
| CB 7 | 7 | - | - | 0.1 - 1.5K | 0.1 - 1.5K |
| CB 10 | 10 | - | - | 0.1 - 2K | 0.1 - 2K |
| CB 15 | 15 | - | - | 0.15 - 2K | 0.15 - 2K |
| CB 20 | 20 | - | - | 0.2 - 2K | 0.2 - 2K |
| CB 22 | 22 | - | - | 1 - 250 | 1 - 250 |
| CB 25 | 25 | - | - | 0.2 - 2K | 0.2 - 2K |
| CB 30 | 30 | - | - | 1 - 250 | 1 - 250 |
| WCB 2 | 2 | 1 - 5K | 1 - 5K | 1 - 5K | - |
| WCB 3 | 3 | 1 - 10K | 1 - 10K | 1 - 10K | - |
| WCB 5 | 5 | 1 - 10K | 1 - 10K | 1 - 10K | - |
| WCB 7 | 7 | 1 - 15K | 1 - 15K | 1 - 15K | - |
| WCB 10 | 10 | 1 - 20K | 1 - 20K | 1 - 20K | - |
| WCB 15 | 15 | 1 - 20K | 1 - 20K | 1 - 20K | - |
| MCB 3 | 3 | - | - | 1 - 500K | - |
| MCB 5 | 5 | - | - | 1 - 500K | - |
| MCB 7 | 7 | - | - | 1 - 500K | - |

Resistance Temperature Coefficient Standard:

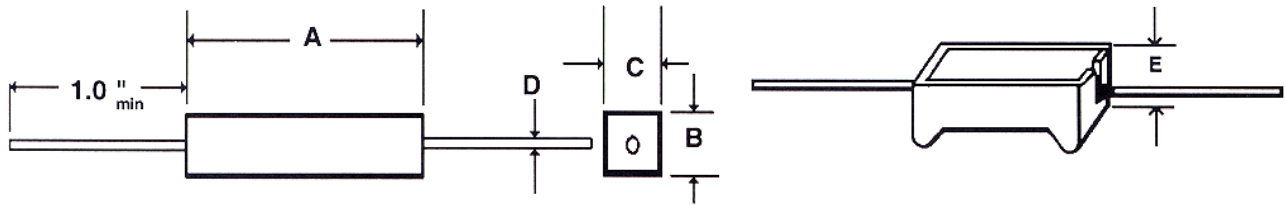
CB series: ±800ppm below 1Ω & ±300ppm for 1Ω and above;

WCB series: ±50ppm from 1Ω to 10Ω & ±20ppm above 10Ω;

MCB series: ±200ppm

How to Order

| SEI Type | | Code | Nominal Resistance | Tolerance | Packaging | | | |
|-----------|-----------------------------|----------|--------------------|----------------------------|--|---------|-------------|------|
| CB | | 2 | 100 | 5% | B | | | |
| Code | Description | Code | | Tolerance | SEI Types | Pkg Qty | Description | Code |
| CB | Standard | 2 | 3 | 0.5% | CB 2, CB 3, CB 5, MCB 3, MCB 5 | 750 | Bulk | B |
| WCB | | 5 | 7 | 1% | WCB 2, WCB 3, WCB 5 | 500 | | |
| MCB | | 10 | 15 | 5% | CB 7, CB 10, CB 15, WCB 7, WCB 10, WCB 15, MCB 7 | 250 | | |
| CBF | 20 | 22 | 10% | CB 20, CB 22, CB 25, CB 30 | 100 | | | |
| WCBF | With standoff | 25 | 30 | | | | | |
| MCBF | | | | | | | | |
| NWCB | Non inductive | | | | | | | |
| NWCBF | Non inductive with standoff | | | | | | | |



| Mechanical Specifications | | | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------|
| Type / Code | A | B | C | D | E | Units |
| CB 2 | 0.709 ± 0.039 18 ± 1 | 0.276 ± 0.039 7 ± 1 | 0.276 ± 0.039 7 ± 1 | 0.025 ± 0.039 0.65 ± 1 | 0.3 ± 0.039 7.6 ± 1 | inches mm |
| CB 3 | 0.866 ± 0.039 22 ± 1 | 0.312 ± 0.039 8 ± 1 | 0.312 ± 0.039 8 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.375 ± 0.039 9.5 ± 1 | inches mm |
| CB 5 | 0.866 ± 0.039 22 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.437 ± 0.039 11.1 ± 1 | inches mm |
| CB 7 | 1.378 ± 0.039 35 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.5 ± 0.039 12.7 ± 1 | inches mm |
| CB 10 | 1.89 ± 0.039 48 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.394 ± 0.039 10 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.5 ± 0.039 12.7 ± 1 | inches mm |
| CB 15 | 1.89 ± 0.039 48 ± 1 | 0.492 ± 0.039 12.5 ± 1 | 0.492 ± 0.039 12.5 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.625 ± 0.039 15.9 ± 1 | inches mm |
| CB 20 | 2.362 ± 0.039 60 ± 1 | 0.571 ± 0.039 14.5 ± 1 | 0.531 ± 0.039 13.5 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.625 ± 0.039 15.9 ± 1 | inches mm |
| CB 22 | 2.5 ± 0.039 63.5 ± 1 | 0.5 ± 0.039 12.7 ± 1 | 0.5 ± 0.039 12.7 ± 1 | 0.036 ± 0.039 0.91 ± 1 | 0.625 ± 0.039 15.9 ± 1 | inches mm |
| CB 25 | 2.362 ± 0.039 60 ± 1 | 0.571 ± 0.039 14.5 ± 1 | 0.531 ± 0.039 13.5 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.625 ± 0.039 15.9 ± 1 | inches mm |
| CB 30 | 2.5 ± 0.039 63.5 ± 1 | 0.625 ± 0.039 15.9 ± 1 | 0.625 ± 0.039 15.9 ± 1 | 0.036 ± 0.039 0.91 ± 1 | - | inches mm |
| WCB 2 | 0.7 ± 0.039 17.8 ± 1 | 0.245 ± 0.039 6.2 ± 1 | 0.255 ± 0.039 6.5 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.3 ± 0.039 7.6 ± 1 | inches mm |
| WCB 3 / MCB 3 | 0.875 ± 0.039 22.2 ± 1 | 0.312 ± 0.039 7.9 ± 1 | 0.312 ± 0.039 7.9 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.375 ± 0.039 9.5 ± 1 | inches mm |
| WCB 5 / MCB 5 | 0.875 ± 0.039 22.2 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.032 ± 0.039 0.81 ± 1 | 0.437 ± 0.039 11.1 ± 1 | inches mm |
| WCB 7 / MCB 7 | 1.4 ± 0.039 35.6 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.036 ± 0.039 0.91 ± 1 | 0.5 ± 0.039 12.7 ± 1 | inches mm |
| WCB 10 | 1.875 ± 0.039 47.6 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.375 ± 0.039 9.5 ± 1 | 0.036 ± 0.039 0.91 ± 1 | 0.5 ± 0.039 12.7 ± 1 | inches mm |
| WCB 15 | 1.875 ± 0.039 47.6 ± 1 | 0.5 ± 0.039 12.7 ± 1 | 0.5 ± 0.039 12.7 ± 1 | 0.036 ± 0.039 0.91 ± 1 | 0.625 ± 0.039 15.9 ± 1 | inches mm |

| Performance Characteristics | |
|-------------------------------------|--------------|
| Test | Test Results |
| Moisture Resistance | ± 5% |
| Thermal Shock | ± 2% |
| Load Life @ 70°C - 1,000 hrs. | ± 5% |
| Resistance to Soldering Heat | ± 2% |
| Short Time Overload - 5xPn for 5sec | ± 2% |
| Dielectric Withstanding Voltage | ± 2% |

Operating Temperature Range: -55°C to +275°C