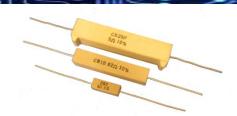
Stackpole Electronics, Inc.

Ceramic Housed with Axial Leads Power Resistor

Resistive Product Solutions

Features:

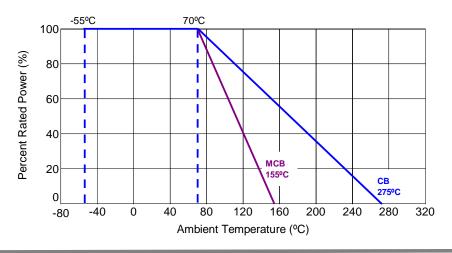
- Fireproof power resistor
- High thermal conductivity
- "M" in MCB stands for Metal Oxide element
- Standoffs may be available (CBF, MCBF).
 Contact factory for details.
- RoHS compliant / lead-free



| Electrical Specifications | | | | | | | | | |
|---------------------------|-----------------------------|--------------------------------|---------------------------------|--|--|--|--|--|--|
| Type/Code | Power Rating (Watts) @ 70°C | Maximum Working Voltage (V) | Maximum Overload Voltage (V) | TCR (ppm/°C) (*) | Ohmic Range (Ω) and Tolerance 5%, 10% | | | | |
| CB2 | 2W | 250 | 500 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.056 - 0.1 0.12 - 0.2 0.22 - 100 | | | | |
| CB3 | 3W | 300 | 600 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.1 0.12 - 3 3.3 - 100 | | | | |
| CB5 | 5W | 350 | 700 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.1 - 0.15 0.18 - 0.68 0.75 - 470 | | | | |
| CB7 | 7W | 500 | 1000 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.39 - 0.51 0.56 - 0.82 0.91 - 470 | | | | |
| CB10 | 10W | 700 | 1400 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.51 - 1 1.1 - 2.7 3 - 680 | | | | |
| CB15 | 15W | 700 | 1400 | ± 800 ppm/°C ± 500 ppm/°C ± 200 ppm/°C | 0.56 - 1 1.3 - 3 3.6 - 820 | | | | |
| MCB3 | 3W | 300 | 600 | ± 200 ppm/°C | 110 - 51K | | | | |
| MCB5 | 5W | 350 | 700 | ± 200 ppm/°C | 110 - 51K | | | | |
| MCB7 | 7W | 500 | 1000 | ± 200 ppm/°C | 510 - 51K | | | | |
| MCB10 | 10W | 700 | 1400 | ± 200 ppm/°C | 750 - 51K | | | | |
| MCB15 | 15W | 700 | 1400 | ± 200 ppm/°C | 910 - 51K | | | | |

^(*) Lower TCR may be available for certain values. Contact factory.

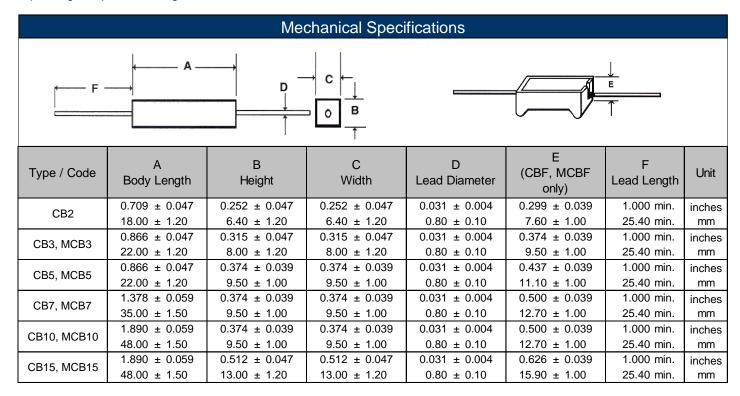
Power Derating Curve:



Resistive Product Solutions

| Performance Characteristics | | | | | | | |
|-------------------------------------|---------------------|--|--|--|--|--|--|
| Test | Test Specifications | | | | | | |
| 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 +155°C for MCB, -55°C to +275°C for CB



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 2). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament.

| RoHS Compliance Status | | | | | | | | | |
|-------------------------------|---|----------------------------------|---|--------------------------------------|--|--|--|--|--|
| Standard Product Series | Description | Package / Termination Type | Standard Series RoHS Compliant | Lead-Free Termination Composition | Lead-Free Mfg. Effective Date (Std Product Series) | Lead-Free Effective Date Code (YY/WW) | | | |
| СВ | General Purpose Ceramic Housed with Axial Leads Wirewound Resistor | Axial | YES | 100% Matte Sn | Jan-06 | 06/01 | | | |
| МСВ | Ceramic Housed General Purpose Metal Oxide Element Resistor | Axial | YES | 100% Matte Sn | Jan-06 | 06/01 | | | |

Stackpole Electronics, Inc.

Ceramic Housed with Axial Leads Power Resistor

Resistive Product Solutions

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the Eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

