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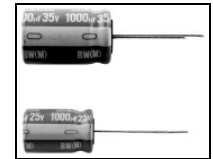
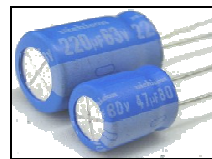
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## Industrial Power: BC, BT, BW, and CX Series with High Temperature Range for Heavy Duty Applications



With the need for manufacturers to diversify becoming more important, flexible components that work in extreme conditions have surfaced as an important technology in power electronics. As suppliers compete to meet the needs of their customers, new technology continues to develop and advance. Nichicon has come to the forefront of the capacitor industry with an expansive offering of high temperature electrolytic capacitors to fulfill those needs. The current BC, BT, BW, and CX series of capacitors are available in voltages up to 450V, with temperature ratings of -55°C to 150°C.

There are many key advantages to high temp electrolytic capacitors; here are a few that highlight the benefits to using them in your designs:

### Advantage #1: Wide Temperature Range

These series offer solutions in both radial and surface mount packages for heavy duty applications with operating temperatures ranging from -55°C to 150°C. These high temperature series are perfect for a range of tough conditions, and have the reliability to match.

### Advantage #2: Highly Dependable with Wide Endurance Range

Boasting average life ratings of 1,000 to 10,000 hours, the high temperature series' versatility extends to meet both low and high endurance applications.

### Advantage #3: All meet AEC-Q200 Standards

With the automotive industry requiring even higher standards for its parts to ensure the safety of drivers, manufacturers can trust the BC, BT, BW, and CX series as they all meet rigorous AEC-Q200 standards.

### Advantage #4: Lead Configuration

These high temperature series are available in both surface mount and through-hole lead configurations, allowing customers the ability to optimize their manufacturing processes. With more options readily available, engineers and designers are no longer limited with their choices.

### Advantage #5: Vibration Resistant

In order to solidify chip-type capacitors used in extreme conditions, the BC and CX series are constructed with a unique lead configuration which gives them added soldering strength. With an additional base that stabilizes the capacitors, the BC and CX series can handle up to 30G's of force.

## High Temp Quick Facts

- Cost Effective
- AEC-Q200 Qualified
- High Temp Capability
- Extremely Reliable
- Wide Temperature and Endurance Range
- Available in Both Surface Mount and Radial Technology



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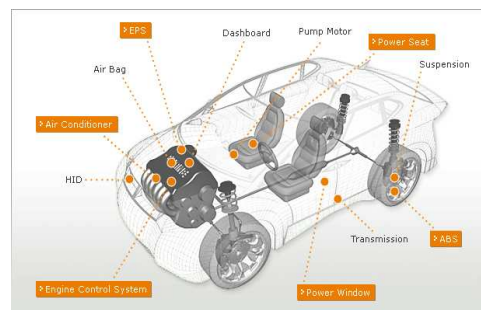
## High Temperature Product Offering

Series	Lifespan	Temp. Range	Voltage	Capacitance
BC	1,000h	-55°C to 150°C	10 to 50V	33 to 3300uF
BT	10,000h	-40°C to 125°C	10 to 450V	1 to 4700uF
BW	3000h	-55°C to 135°C	10 to 100V	1 to 4700uF
CX	2,000h	-40°C to 135°C	10 to 50V	47 to 3300uF

## Focus Markets

- Automotive
- Industrial
- Power Electronics

## Applications



There is a wide variety of applications for electrolytic capacitors and we have merely scratched the surface. We encourage you to contact your Nichicon Account Representative if you have any additional questions.

- Engine Control Units
- DC/DC Converters
- Inverter Controls
- Airbags
- Electric-Pump
- Headlight Ballasts
- Battery Controls

\*Data sheets for the high temp series can be found on Nichicon's web site at [www.nichicon.com](http://www.nichicon.com):

### Nichicon's Range of High Temperature Capacitors Include:

- BC Series
- BT Series
- BW Series
- CX Series