

PTCEL—PTC Thermistors, Inrush Current Limiters

Self-Protecting PTC Inrush Current Limiters with Increased Active Charge and Discharge Performance

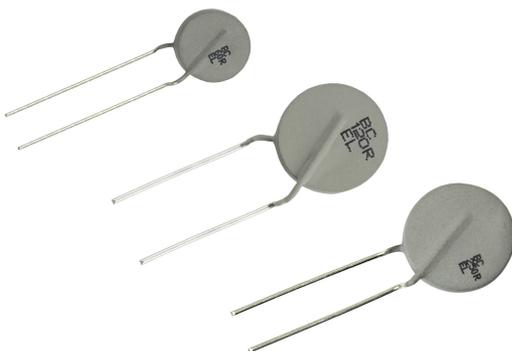
ADVANTAGE



Extended PTC inrush current limiters, resistance and lead spacings offer increased energy handling in high voltage applications.

KEY PRODUCT FEATURES

- ✓ High PTC resistance offers better high voltage handling
- ✓ Higher R values offer a higher capability in inrush current limiting applications and when used in parallel combinations
- ✓ Larger PTCEL17 types on tape and reel can automatically be handled by pick and place equipment



MARKETS AND APPLICATIONS



MOBILITY

- AC/DC converters and DC-Link circuits
- Discharge circuits
- Home ESS
- BMS circuits



ENERGY SECTOR

- Mobility power stations (ESS, BMS)



INDUSTRIAL

- Motor drives
- Welding equipment

ADDITIONAL BENEFITS

- C-UL-US recognized parts offer an increased and controlled safety level that has been verified by Underwriter Laboratories
- Alternative leadwire pitches—high voltage types often need a higher creepage distance on the PCB level, which can be offered by the higher pitch versions

RESOURCES



[Product Page](#)



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[Infographics](#)



[Did You Know](#)



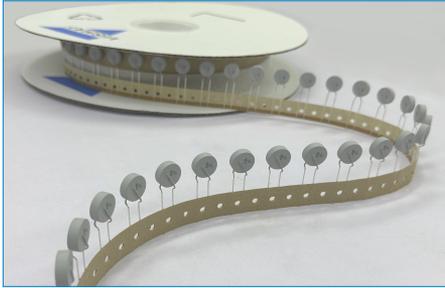
[3D Models](#)

SPICE
[Models](#)

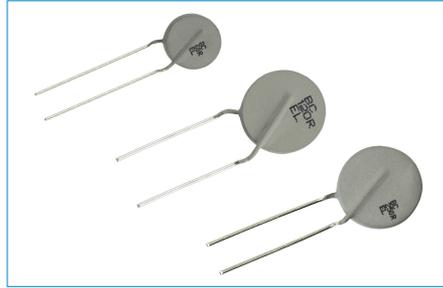


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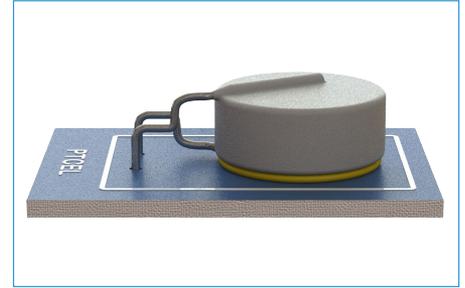
STANDARD AND CUSTOM OPTIONS



Tape on Reel



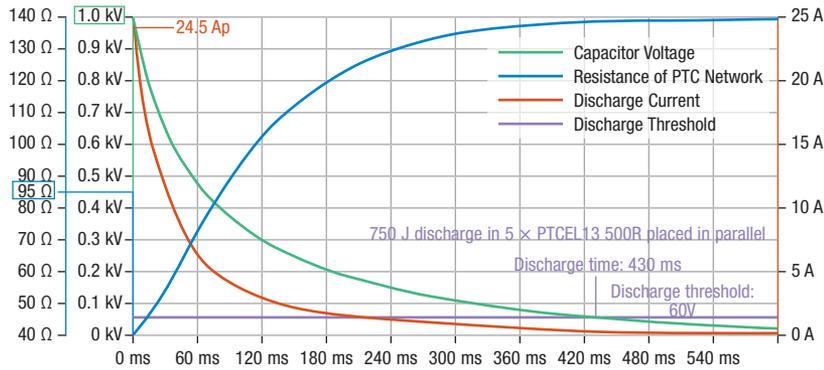
Alternative Leadwire Pitch
(5.0 mm / 7.5 mm / 10.0 mm)



Custom Bended Leads

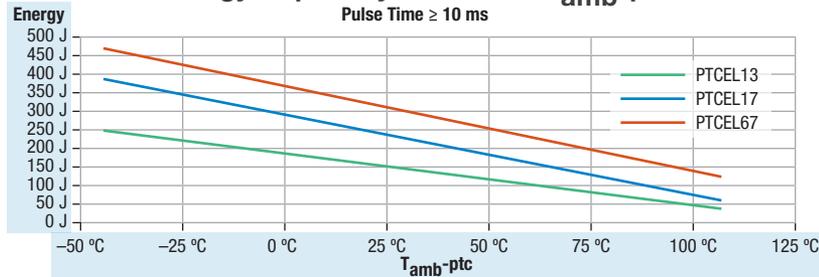
ENERGY CAPABILITY AND PERFORMANCE

PTCEL Discharge Curves: V_{ptc} - I_{ptc} - R_{ptc} vs Time

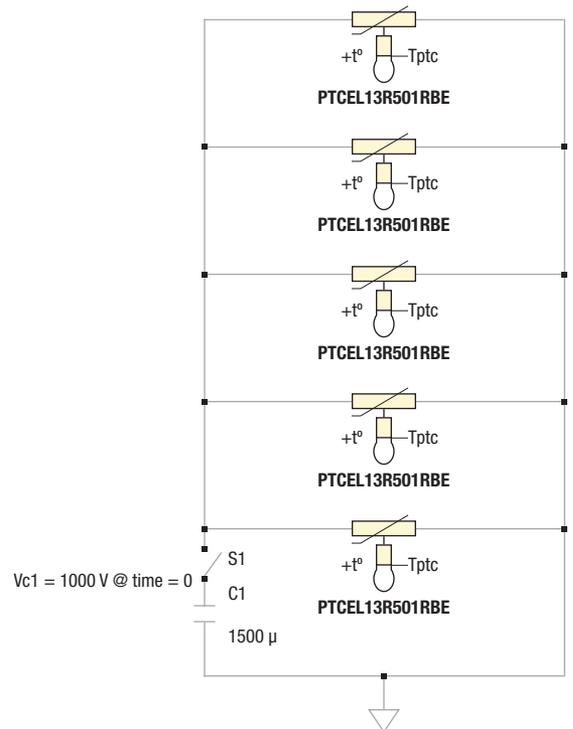


Energy Capability: PTCEL vs $T_{amb-ptc}$

Pulse Time ≥ 10 ms



PTCEL Discharge Circuit



Start using higher PTC resistance values with increased voltage handling and alternative placement options. Please [contact us](#) for technical advice or to [purchase samples](#).