

# PTCEL—PTC Thermistors, Inrush Current Limiters

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

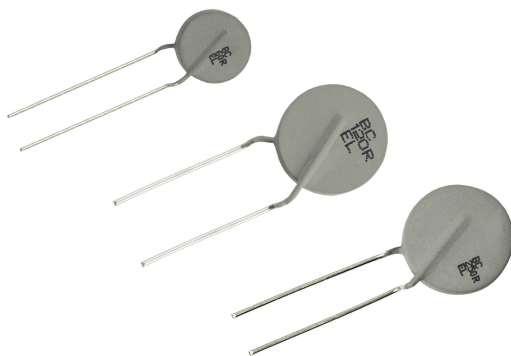
### ADVANTAGE



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](#)



[Contact Us](#)



[Infographics](#)



[Did You Know](#)

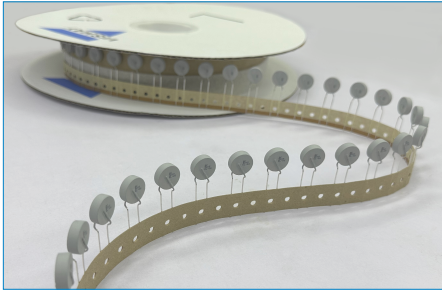


[3D Models](#)

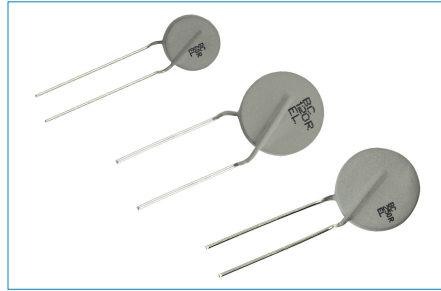
**SPICE**  
[Models](#)



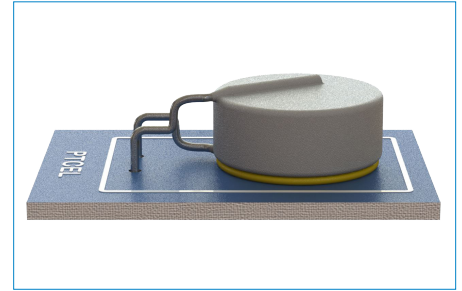
## STANDARD AND CUSTOM OPTIONS



Tape on Reel



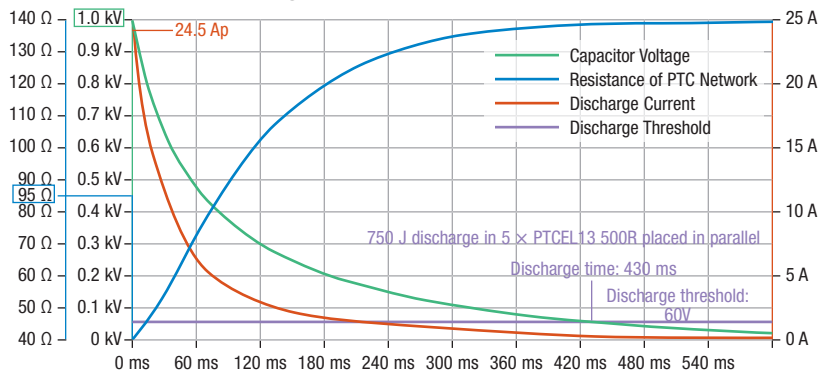
Alternative Leadwire Pitch  
(5.0 mm / 7.5 mm / 10.0 mm)



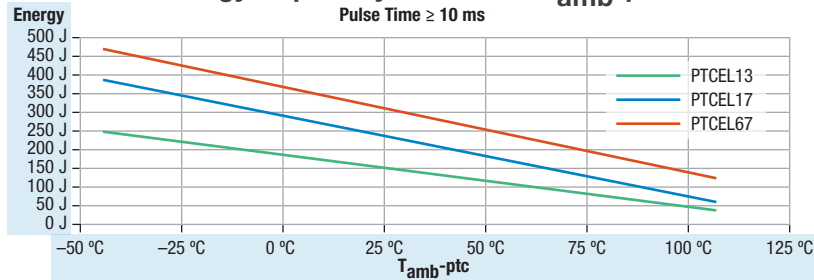
Custom Bended Leads

## ENERGY CAPABILITY AND PERFORMANCE

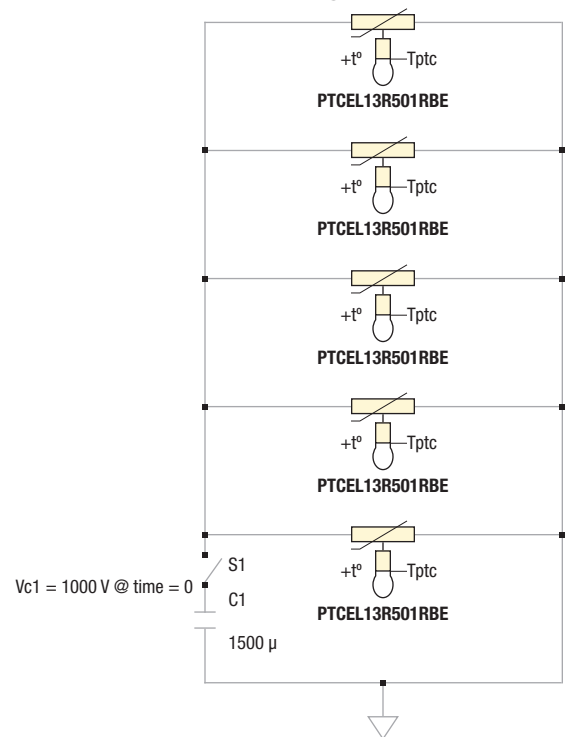
### PTCEL Discharge Curves: $V_{ptc}$ - $I_{ptc}$ - $R_{ptc}$ vs Time



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



### 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](#).