



E-CHARGER SuperCaps



Key Features

- Low ESR – Always ready to provide the current that your application demands
- At least 500 000 charge/discharge cycles make these products ideal for long-life applications, where standard batteries wear off too soon
- Fast charging and discharging in level of seconds, compared to battery solution in levels of minutes/hours
- Superior reliability - AVX passes 4000 hours life tests with results still within specification

Key Applications

- Backup power supply – Providing energy to safely shutdown the application
- Pulse power handling – Assisting primary power supply in cases of high current peak consumption
- Energy harvesting – Optimizing the energy usage through power regeneration or capturing the power from the environment

Key Benefits

- 6,3mm diameter cell option available as the smallest in industry
- Molded case encapsulation option for better performance in humid environment
- Customized options available





E-CHARGER TCQ Automotive Polymer Series



Key Features

- Meets Requirements of AEC-Q200
- Humidity 85°C/85% RH, Vr, 1000 hours
- Basic Reliability 1%/1000hrs @85°C Vr with 60% Confidence Level
- -55 to +125°C Operation Temperature – extension to 150°C Operation Temperature with TCO Series
- Full Voltage Range: 2.5-50V
- DCL 0.1 CV
- 3x Reflow 260°C Compatible
- 100% Surge Current Tested

Key Applications

- Safety: seat weight sensors, drive assistance systems...
- Body Electronics: small motor drives, communication BUS, transponders, dashboard systems, car alarm, rain/ light sensors...
- Comfort and Convenience: seat heating, air conditioning, GPS location systems, parking assistance, keyless system, remote start...



Key Benefits

- Robust design for automotive applications
- Benign failure mode under recommended use conditions
- Manufactured in an IATF 16949 certified facility