By Freddy Chen & Dr. Liwu Wang; June 2025

AEM Innovation to Power Your Vision

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AEM COMPONENTS

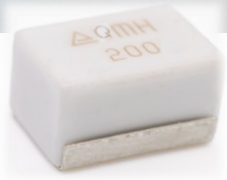
New Product Introduction

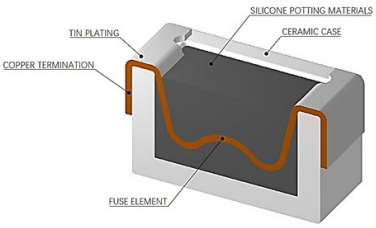
Automotive Grade High-Power SMD Fuse (QM2822H & QM2840H)

Single Fuse Solution For Automative High-Power Applications









AEM QM2822H & QM2840H series SMD fuse features reliable protection and enables high power control board at less space. They covers the current range from 40A to 200A, which are the robust and have superior high safety density. The automotive grade QM2822H & QM2840H series are specially designed and manufactured at IATF 16949 certified facility and qualified per AEC-Q200 Rev E.

Data Sheet **Contact Us**

Applications

- **Battery Distribution Unit (BDU)**
- **eMobility & EV infrastructure**
- **Battery Packs, Drone & Power Tools**
- **AI Computer, Telecom & Data Center**
- **AGV/AMR**

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New Product Introduction

Automotive Grade High-Power SMD Fuse (QM2822H & QM2840H)

Features:

- Thermal simulation on critical fuse element design with optimized & safe fuse performances
- Super high-current ratings from 150A to 200A
- Application specific voltage ratings 75Vdc
- Best in class safe power density
- Low DC resistance (DCR) – minimized excessive power loss & optimize thermal management
- Automotive grade qualified per AEC-Q200

Benefits:

- Save space by using a single fuse rather than multiple fuses in parallel.
- Integrated ceramic molding, no burrs, cracks
- Safe and firm robust structure
- Compact size with high power density
- Eliminate burning and explosion at high voltage/current conditions
- Surface mountable for platform design

HIGH-POWER FUSE PROTECTION FOR AUTOMOTIVE SATEY



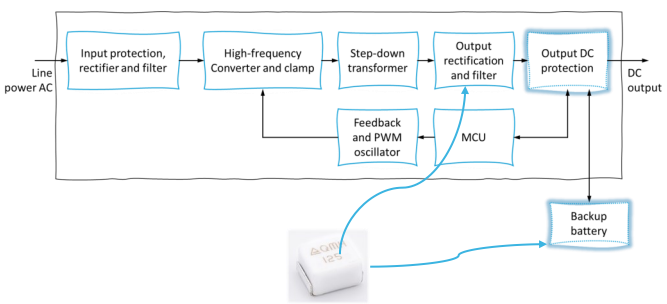
Why choose AEM QMH Series fuses?

- The compact QM2822H and QM2840H Series fuses provide a single fuse solution for this compact application.
- Superior reliable and safe protection with high inrush current withstanding capability

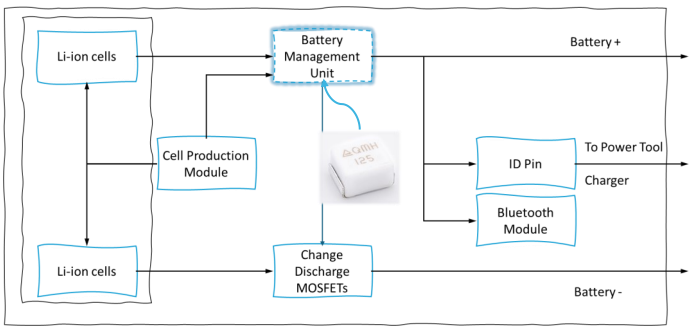
About Us

As a high-tech enterprise specializing in the research and manufacturing of ceramic electronic components, AEM is committed to providing zero failure safety guarantees for EV and high-end electronic devices with advanced circuit protection standards, and jointly building a sustainable electronic component ecosystem.

Application Example



Battery Input/Output Protection Scenario



Backup Battery Protection Scenario