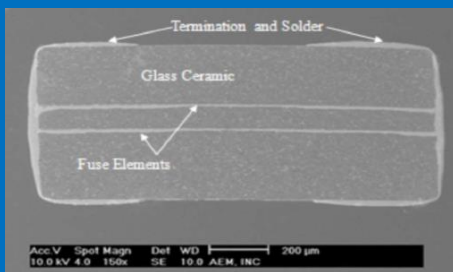


SolidMatrix Multilayer Design Benefits Fuse Structure Comparison

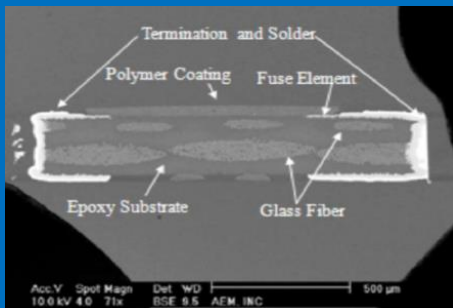
AEM SolidMatrix Chip Fuse

- Multiple fuse elements
- High temperature / Airtight construction
- Fuse element centered in ceramic body



Conventional Chip Fuse

- Single layer fuse element
- Fuse element placed on top of substrate
- Fuse element covered with polymer coat



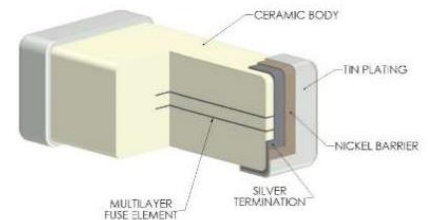
Protec GmbH

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AEM Leading Edge Automotive Grade Fuses SolidMatrix Fuses – QF Series

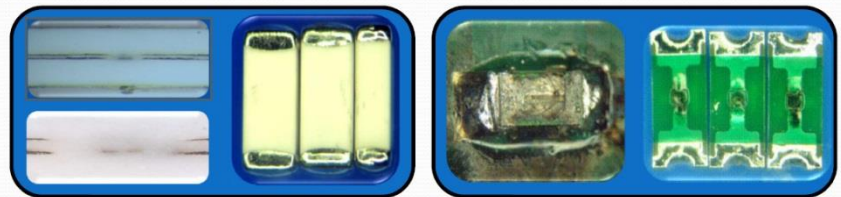
AEM's SolidMatrix Fuses are monolithic, multilayer ceramic fuses with the unique feature that the fusing elements are centrally located within the body, an approach which is different from the typical fuse where the fusing element is printed on the surface of a substrate and then coated with a polymer.

This polymer coating is intended to provide isolation for the fuse element. The traditional fuse is unable to contain the associated energy causing the surface of the fuse to melt and crack.



AEM's ceramic fuse in comparison, maintains its mechanical integrity after the fuse opens and remains an airtight structure.

Comparison of the post open condition



AEM SolidMatrix® Chip Fuse

- Fuse element diffused into ceramic body
- Integrity of fuse body maintained
- Airtight package preserved

Conventional Chip Fuse

- Fuse opening causes arcing
- Surface melting / cracking
- Mechanical integrity compromised

Features & Functions

- AEC-Q200 Qualified / TS16949 Certified
- Unique Co-fired monolithic structure
- Patented Multilayer Design
- Best in class volumetric efficiency
- Stable performance at extreme conditions
- Superior, airtight mechanical structure
- Fast Acting and Slow Blow design options
- 0603 & 1206 package size options
- Current ratings 0.5 to 8A
- Voltage ratings 24 to 63VDC
- Operating temperature -55 to +150° C
- Anti-Sulphur & 100% Lead free design