PEM® THFE™ Heavy-Duty Studs: Total System Solution with PEMSERTER® Press Met Safety-Critical Requirements

Switching to THFE™ Heavy-Duty Studs with PEMSERTER® installation system simplified the assembly process and satisfied critical safety requirements for high-voltage application.

OVERVIEW

Customer: Automotive Electronic / Electro-Mechanic Components

Application: Battery Terminal Connectors

Solution: THFE™ Heavy-Duty Studs

CHASELLENGE

Remove “Arcing” Risk to Prevent Safety Issues

• Current busbar design limited installation access
• No metal protrusion allowed around base of stud
• Fire risk due to high voltages
• Need system supply solution
• Need global manufacturing support

RESULTS

Utilizing the THFE™ stud design removed risk of critical safety issues

• Supplying PEM® fastener and PEMSERTER® installation removed need for 2 suppliers
• Tooling design allowed for install into recessed connector
• Supplied with Zinc plating for OEM requirements
• Expert PEM® support for testing, validation
• PEM® global capabilities with production in North America, Europe and China

SOLUTION

THFE™ Heavy-Duty Studs

• For thin-sheet applications
• Clinch design for max pull through (.031” / 0.8mm sheets)
• Enlarged head diameter reduces panel stress
• Thicker head allows larger panel holes
• Recommended for steel/aluminum sheets HRB 85 / HB 165 or less
• PEMSERTER® installation press for Total System Solution