



PEM® FASTENERS FOR ELECTRICAL APPLICATIONS

The engineering excellence behind PEM® brand fastening solutions is why many of the world's top brands turn to us when faced with new challenges for their electrical applications.

PROVEN PERFORMANCE

Reliable performance of your electrical systems requires reliable, secure performance from the components inside. PEM® fasteners are proven to perform across many applications.

- Automotive electronics
- Electric vehicles
- Computers
- Consumer electronics
- Industrial
- Datacom/telecom
- Medical devices/instrumentation
- Appliances
- Lightings/displays

PEM® CUSTOMIZATION

PennEngineering®'s diverse portfolio of fastening solutions provides many benefits - from reduced fastener footprints and assembly times to safety-critical reliability and clean/environmental stewardship.

For any application challenge you have, custom-engineered PEM® solutions are available. Our team works with you to design and develop the right fastener for the results you need.

GLOBAL SUPPORT AT THE LOCAL LEVEL

Our vast network of PEM® distributors along with sales, engineering, and technical support experts are strategically located around the world to provide the help you need, when you need it. From North America, to Asia, to Europe - PEM® services offer global support at the local level.

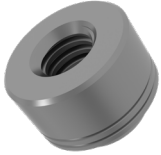
As electronics-based systems evolve in scale and complexity - from datacom equipment to electric vehicles - the need for greater product innovation and performance reliability grows.



PCB FASTENING SOLUTIONS

PennEngineering® offers a number of PEM® fastening solutions that utilize surface-mount, broaching, and flaring technology for use with PC boards. Clinch hardware prevents loose hardware that can fall and short sensitive electrical components.

NUTS AND SPACERS/STANDOFFS



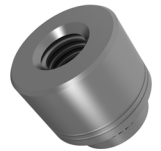
SMTSO™/SMTSOB™

ReelFast® surface mount nuts and standoffs are available in threaded and unthreaded.



KF2™ / KFS2™

Broaching nuts, internally threaded for mounting on PC boards. Can also be used in aluminum, acrylic, casting and polycarbonate components.



KFB3™

Broach/flare-mount standoffs that offer a combined broach/flare feature for even greater pullout performance in PC board materials.

RIGHT ANGLE FASTENERS



SMTRA™

ReelFast® R'ANGLE® surface mount fasteners provide strong, re-usable threads at right angles to PC boards. Get faster assembly, reduced scrap, reduced handling, and reduced risk of board damage.

STUDS



KFH™

Threaded broaching studs for use as solderable connectors or as permanently mounted studs on PC boards.

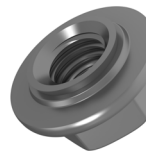
BUSBAR FASTENING SOLUTIONS

Many PEM® fasteners are designed and developed for a wide range of busbar electrical requirements.



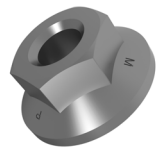
HFHB™

Heavy-duty busbar studs, ideal for applications which demand superior electrical/mechanical attachment points.
Brass material suitable for transfer of current.



SCN™ (Self-clinching Spinning Nut)

A one-piece, hex flange nut that is permanently captivated in the sheet and spins freely.
Flat bottom of nut better distributes clamp load.



SFN™ (Spinning Flare Nut)

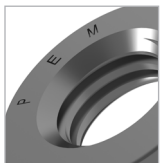
Can eliminate all loose fasteners in thin metal sheet attachment applications.



SFK™ SpotFast® Fastener

Designed for flush joining of metal to PCB/plastic panels. Smart alternative to riveting or spot welding.

PEM® TRADEMARKS



Be sure you are getting genuine PEM® brand fasteners – look for the unique PEM® product markings and identifiers.

PEM® products meet stringent quality standards. For specific industry information, please contact us. Quality Certification and Regulatory Compliance information is available in the Resources section of our website.

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