

## **Type MSIB™ microPEM® Brass Inserts Provide Reusable Metal Threads to Attach Plastics Securely in Compact Electronic Assemblies**

Type MSIB™ microPEM® brass inserts from PennEngineering® provide reusable metal threads to attach plastics securely in compact electronic assemblies. Their unique symmetrical shape will accommodate either straight or tapered holes and eliminates any need for orientation of the inserts during installation. The inserts install permanently where designed into ABS, polycarbonate, and other plastic substrates by pressing them into the host material using ultrasonic equipment or thermal press. Upon installation, they will not loosen or fall out.

Applications include wearables from smart watches and cameras to fitness bands and headphones, laptops, tablets and readers, and gaming and handheld devices, among many others.

The inserts feature threads as small as M1, can be specified in a range of lengths, and will mount in plastics as thin as 0.7mm. Mating hardware completes final component attachment.

Type MSIB inserts join a growing family of microPEM fasteners engineered to satisfy a wide range of precision attachment requirements in the consumer electronics marketplace.

Detailed specifications, fastener drawings and models, and performance data (Bulletin MPF) can be accessed at [www.pemnet.com](http://www.pemnet.com)

PennEngineering develops and manufactures precision fasteners, components and systems, specializing in thin sheet attachment solutions. The Company's manufacturing and technical facilities in the United States, Europe, and Asia are supported by a worldwide network of authorized engineering representatives and distributors.

For more information, visit [www.pemnet.com](http://www.pemnet.com), email [info@pemnet.com](mailto:info@pemnet.com), or contact Michael J. Rossi, PennEngineering®, 5190 Old Easton Road, Danboro, PA 18916-1000 USA. Phones: +1-800-237-4736 (toll-free in the U.S.) and +1-215-766-8853.

