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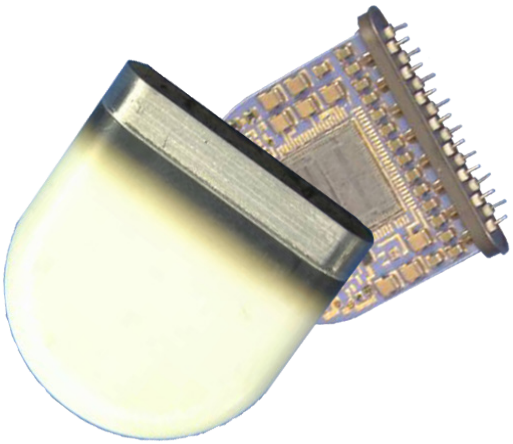
# Implantable Packages

## Overview

**PA&E, a Qnnect company, makes it possible for medical device developers to create new, life-saving devices that are smaller, stronger, and more reliable. Our medical components are used in applications such as cochlear implants, neurostimulators, cardiac-function devices and more.**



## Technical Advantages

### Turn-Key Solutions

PA&E can help bring your implantable medical device to life. We offer a range of services for every stage in the process including: precision package machining and feed-thru manufacture/integration.

### Field Proven

PA&E has a 40+ year track record of supplying packaging and interconnect components to both early-stage, and well established implantable medical device manufactures.

### Unique Technologies

Our unique Kryoflex® ceramic-to-metal sealing technology is especially well suited for applications that require very tight pin pitches. It is an excellent insulator and a great alternative to traditional gold-braze pin sealing solutions. We've also developed specialized brazing materials and process that allow PA&E to hermetically join titanium and zirconia for implantable medical device packages that require RF transparency.

### Vacuum Brazing/Diffusion Bonding

PA&E joins dissimilar materials such as titanium, aluminum, zirconia, and more. We've been making these medical feedthrus and assemblies for more than 25 years.

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**For More Info:**
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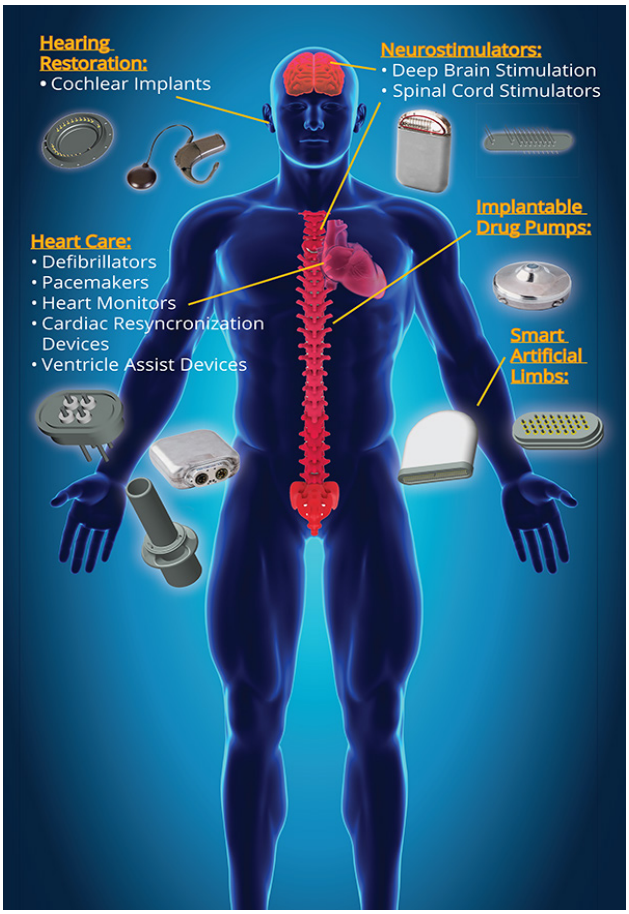
PA&E
A Qnnect Company

## Advanced Implantable Viability

PA&E's packaging solutions address potential rejection issues by using materials with a proven track record of implantable viability. For example, we utilize advanced ceramic materials in a housing that enable a cochlear implant to reside safely within the human body without incident for decades.

## Implantable Applications Supported




## Smaller, More Durable Components

PA&E has developed a ceramic-to-metal joining technology to make components smaller without compromising performance. Our RF transplant ceramic enables device manufacturers to communicate with devices from outside the body. Using smaller components and strengthening advancements, we have increased the durability of implantable medical devices.

## Kryoflex

Kryoflex® is a family of polycrystalline ceramics developed by PA&E for hermetically sealing together materials used in electrical feedthrus and is very effective at prohibiting the influx of any fluids or gases into the internal electronic circuitry. Kryoflex is used to manufacture ultra-reliable feedthrus for a wide-variety of implantable devices.