

Size is a critical consideration when designing implantable components. SOURIAU PA&E manufactures the world's smallest multi-layer ceramic discoidal capacitors at 0.040" in diameter. Thanks to its unique manufacturing process, SOURIAU PA&E can install these capacitors on the individual feedthrus pins when required.



- ◆ Individually filtered pins
- ◆ Ceramic sealing
- ◆ Titanium housing
- ◆ Platinum/Iridium pins (Pt/Ir)
- ◆ Truly hermetic leak rate $< 10^{-9}$ atm-cm³/s

The SOURIAU PA&E Advantages:

Design History	We have been making implantable devices in volume for over 30 years.
Design flexibility	Complex shapes can be easily realized without the need for elaborate and expensive mold tooling. Our expertise in titanium machining enables us to effectively produce a wide variety of geometries.
Development flexibility	Need to move a pin? A simple engineering change and programming change and the next version is ready. No complex mold tools to scrap.
Better standoff distances	Our pins are sealed into headers using our Kryoflex [®] ceramic sealant - an excellent insulator. Other technologies such as gold braze use a metallic braze filler as a sealant, which, for a given geometry, reduces the effective electrical pin-to-body standoff distance.
Transparency: prototypes to production	Our prototype parts are identical to the final production parts. Need 50 parts to start your qualification process? No problem. You can start qualification testing with these parts with assurances that future parts will be identical. Other technologies use different production strategies depending on volume, so testing performed on low volume samples may have to be redone for larger volume production parts produced with different methods.



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