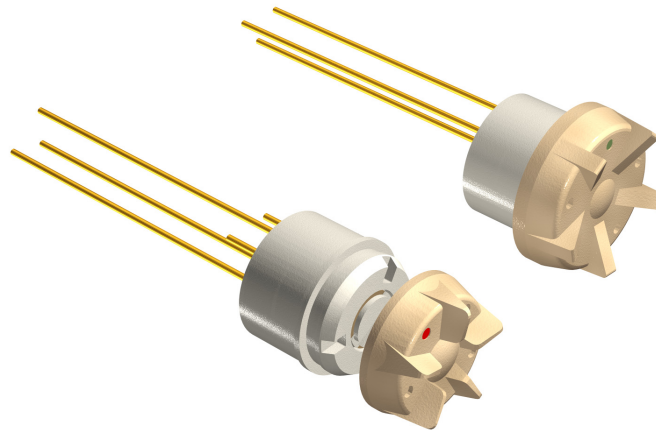


Technical Bulletin



PJ 88 Volume Control Improved Wiper Design

Sonion is pleased to announce that we have succeeded in further enhancing the reliability of our PJ 88 Volume Control - since 1984 the market leader in volume controls for ITE/ITC instruments.

The new wiper was gradually implemented as of April/May 1997. The results have been closely monitored in our Quality Assurance Department. For tracking purposes, all PJ 88 with batch numbers above 220000 have been produced with the new wiper.

The change is part of our continuous improvement philosophy at Sonion. The changes will not affect part numbers, so specific requests are not required.

The improved wiper design, which has been comprehensively tested, enhances several product properties:

- Lower contact resistance to reduced rotational noise
- Improved contact pressure leading to increased electrical stability
- Reduced mechanical wear of the wiper and the resistance element leading to a prolonged lifecycle

Dan Lundahl
Quality Manager
Medical Division