

## **Fiber Laser Welding of High Integrity Implantable Medical Devices**

Submitted by Guest (not verified) on Fri, 05/07/2010 - 12:51pm LaserStar Technologies Corporation

Medical implantable devices like pacemakers, ICDs and leads are progressively becoming more compact and lighter. Some of the components used for hermetic and structural welding are still large and thick enough for conventional Nd:YAG pulsed lasers. However, some of the welded components, particularly used for electrical connections, have become so small and thin that the conventional Nd:YAG laser performs like a big and rough tool. Properly selected laser beam characteristics, such as diameter of the beam and energy distribution within the focused spot in welding area, may significantly improve welding process increasing yield during production.

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