

# New V9000 trimmers for MRI coil designs



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**For over 50 years, Voltronics has been providing variable trimmer capacitors to the electronics industry. In the field of Magnetic Resonance Imaging, Voltronics have developed the broadest line of non-magnetic products in the world. The V9000 series is the newest, smallest, high voltage trimmer capacitor.**



The V9000 Sapphire trimmer capacitor is unique in design. It is truly sub-miniature at just 0.64" (at minimum capacitance) in length, but offers the highest working voltage rating (2 kV) for its size - whilst delivering a capacitance range of 1 to 12pF. Sapphire is ideal for precision trimmer capacitors as its dielectric constant is extremely stable, measuring below 0.0003 up to 10 GHz, and is chemically inert; totally moisture resistant and mechanically strong.

These trimmers have a high Q (3000 min at 100MHz); DC working voltage of 2000V and DC withstand of 3000V. They are also compatible with SAC 305 reflow processing.

The V9000 Series is specifically designed for the MRI industry where its size, power, capacitance range and affordability make it the preferred choice for the next generation of coils. Due to the severe non-magnetism requirements this industry requires we use only materials that exhibit no measurable magnetism - commercial brass and plating materials are not acceptable. Our strict traceability and testing regimes ensure this essential parameter.

Ends

*Note: Dielectric Laboratories (DLI), Novacap, Syfer Technology and Voltronics have come together into a single organisation, Knowles Capacitors. This new entity has a combined history exceeding 175 years and is a division of Knowles Corporation of USA, an independent publicly traded company.*

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