

Exxelia Ohmcraft's Small, Low-Noise Resistors Maximize Design Options and Accuracy for Sensor Manufacturers

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/EINPresswire.com/ -- For more than 25 years, leading sensor manufacturers have turned to Exxelia Ohmcraft to provide small-form-factor, ultra-[low-noise](#)

surface mount [resistors](#) to be used in a variety of critical sensor applications. In these applications, Exxelia Ohmcraft's resistors enable designers to miniaturize the sensor's footprint or accommodate multiple sensors in close proximity to each other—all while increasing accuracy of the end products.



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Eric Van Wormer

Resistors have a certain amount of electrical noise that is inherent in their construction, and the higher the noise, the more distorted the signal can become. Exxelia Ohmcraft's [high-resistance](#), low-noise chip resistors provide clearer signals to the sensor electronics, thereby improving their accuracy.

To ensure requirements are met for specialty sensors such as those used to measure acceleration, velocity, or

vibration, Exxelia Ohmcraft works closely with design engineers, who appreciate the combination of high performance, reliability, and small form factor that the company can provide.

“Finding resistors that check all of these boxes can be a challenge for sensor designers. At Exxelia Ohmcraft, our understanding of these requirements allows us to provide the highest performing solution at the lowest possible cost,” said Eric Van Wormer, Vice President of Exxelia Ohmcraft. “In sensor electronics, it can be difficult to distinguish the signal one is trying to measure from the noise of the surrounding environment, but our low-noise resistors ensure that the signal quality is maximized.”

Exxelia Ohmcraft's technology utilizes the proprietary Micropen electronic printing system to “print” precise, narrow, serpentine lines with resistive ink on a ceramic substrate, producing

higher performance resistors over a wider range of values on a smaller surface area than is possible with conventional film resistor technology.

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About Exxelia Ohmcraft

Exxelia Ohmcraft's thick-film, surface mount resistors are engineered to meet application-specific needs. Our proprietary Micropen printing technology is the foundation for Exxelia Ohmcraft's family of resistor products. Exxelia Ohmcraft's precision leaded resistors are manufactured with our patented Micropen technology to create a unique serpentine design that withstands voltages up to 100kV and provides an unmatched level of performance and stability. For more information, visit Ohmcraft.com.

About Exxelia

Exxelia is a leading global designer and manufacturer of high-performance passive components and subsystems. Exxelia's wide products portfolio includes film, tantalum, ceramic and electrolytic capacitors, inductors, transformers, microwave components, position sensors, slip rings and high-precision mechanical parts. Recognized worldwide for its advanced design and technical expertise, Exxelia develops both "catalog" and "custom" products exclusively serving high-reliability markets such as aerospace, defense, medical, transportation, telecommunication infrastructure and advance industrial applications. Additional information can be found at <https://exxelia.com>.

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