

# Medical

## Imaging

## Equipment

## Defibrillation

## Ohmite Products for the Medical Equipment Industry

Ohmite provides medical OEMs and designers with reliable high-performance resistive products used in hundreds of medical applications. Doctors and patients must trust that the medical products they use will perform safely, reliably, and effectively. We understand the needs of the medical industry, and we work closely with medical companies to provide the right product for each application. Our unique combination of product leadership, application expertise, and stable delivery makes Ohmite the natural choice for your medical needs. We've been doing this for decades, and we will be here for the long term to support your future needs.

Hospitals and healthcare facilities require critical and costly advanced medical equipment. Despite state-of-the-art technology, the electronic equipment and systems essential to today's healthcare facilities remain vulnerable to power failures and natural disasters. Ohmite is unique in understanding these risks and ensuring that essential systems remain fully operational.

With a wide array of components for Motion Control, Circuit Conditioning and Circuit Protection, Ohmite has the proven qual-



ity and reliability for applications crucial to the accurate diagnosis of patients throughout the world.

Ohmite's product offerings are used in many different industries, ranging from industrial, medical, and transportation to military and aerospace. While every industry has its own unique challenges and nuances in optimizing product performance and cost, often the best solution comes from the ability to draw from experiences from other industries as well. This "out-of-the-box" thinking explains why Ohmite is so successful in enhancing product performance and making companies more competitive, regardless of sector.

We combine our component-specific expertise and manufacturing know-how with your industry-specific understanding to develop the unique solution to meet the challenges you face. And, we continue to expand our product offerings through research and development and acquisitions to meet your needs.

# OHMITE®



## HVF Resistors

Ohmite's High Voltage Flip Chip Series incorporates high-accuracy screen printing technology to achieve high-voltage capability. This high-voltage chip can handle up to 3000V in a small 2512 package size with a stable flip chip design. Its unique design provides lower voltage and temperature coefficients, less noise, tighter tolerances, better stability, higher resistance values, and higher voltage ratings.



## 270 Type

Ohmite 270 Type fixed resistors are available for applications requiring wattage ratings from 12 to 1000 watts. This rugged resistor series is equipped with lug terminals suitable for soldering or sturdy bolt connection. When secure mounting is required, the hollow core of these resistors permit fastening with spring-type brackets, or through bolts with slotted-steel brackets (sold separately). The 270 Type resistors feature all-welded construction and durable lead-free vitreous enamel coating.



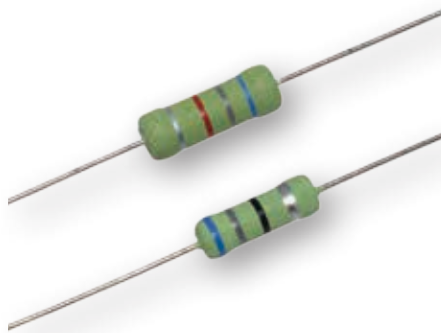
## TEH100

Ohmite offers the totally encapsulated and insulated TO-247 package for low ohmic value and non-inductive design for high-frequency and pulsing applications. The TEH100's excellent thermal efficiencies allow this thick-film resistor to dissipate 100 watts when mounted to a proper heat sink. 1% and 5% tolerances are available with resistance values up to 1 meg ohm on request.



## Slim Mox

Ohmite's Slim-Mox provides stable performance for a wide range of resistance values from 100 to 5 Gig ohms. The Slim MOX series achieves up to 9 watts of power dissipation using a silicone coating. These high-voltage resistors are rated up to 25KV. Low temperature coefficients are available for high-stability circuit applications. The space-saving planar package offers an alternative to traditional high voltage resistors. A resistor divider version is also available, with resistance ratios up to 5000:1 and ratio tolerances down to 0.5%.



## OX/ OY Resistors

The OX/OY Series of fixed ceramic resistors are ideal for circuitry associated with surges, high peak power, or high energy. They offer enhanced performance in high voltage power supplies, R-C snubber circuits, and inrush limiters. The OX/OY resistors can often replace carbon-composition resistors which can be difficult to source. The OX/OY series is available in 1-watt and 2-watt sizes. Single impulse values of 50 and 80 joules respectively make these small axial resistors key in space-restricted applications.

## Ohmite Manufacturing Company

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# OHMITE®

# Transportation

Heavy Rail / Light Rail

Automotive

Earth/Materials Movers

People: Elevators, Escalators, Etc.

## Ohmite Products for the Transportation Industry

Ohmite is driven to transform the industry with every part and every custom solution. Our transportation solutions are customized to exacting specifications, yet flexible to every need. They are designed to withstand harsh environments, including metal plating to prevent oxidization of metal parts. From dynamic braking, custom controls, lighting, and to anything you need for backhoes, military ground equipment, tractors, snowmobiles, dump trucks, or most any off-highway vehicle — including custom solutions for agriculture, and construction.

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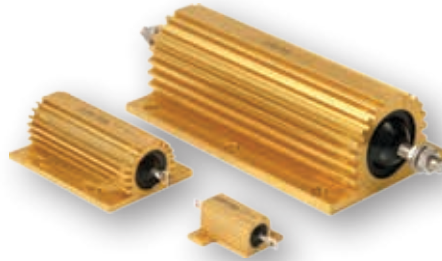
## 270/280 Series

The 280 Type fixed resistors are manufactured with corrugated resistive wire. To accelerate cooling, the wire is securely fused to the ceramic core by the protective vitreous enamel coating to improve durability. These large, heavy-duty resistors are designed to withstand the frequent start-stop cycles characteristic of motor starting, dynamic braking, and other similar applications. Ohmite 270 Type fixed resistors are available for applications requiring wattage ratings from 12 to 1000 watts. Both rugged resistor series are equipped with lug terminals suitable for soldering or sturdy bolt connection. 270 and 280 Type resistors feature all-welded construction and durable lead-free vitreous enamel coating.



## Rheostats

Ohmite RH style rheostats are designed and manufactured to operate smoothly and reliably for long periods of time. A wide range of models from 7.5 watts to 1000 watts is available, with resistance ranges of 0.5 ohms to 10K on most models. RH series rheostats are typically used in motor speed control, light dimmers, and equipment requiring convenient variable resistance control.



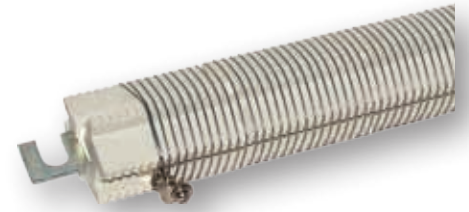
## HS Series **ARCOL**

The Ohmite ARCOL brand HS Series is a high-performance molded-construction metal-housed resistor. They are available in higher power ratings than standard axial resistors and are better suited to withstanding vibration, shock, and harsh environmental conditions. The HS series resistors are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The metal housing also provides heat-sinking capabilities, extending the series wattage up to 300 watts.



## TAP600/800 Series

Ohmite's TAP600/800 Series of planar thick-film resistors dissipates up to 800 watts of power when used with a liquid or air-cooled heat-sink system. The TAP600/800 resistors are typically used in applications that include variable speed drives, power supplies, robotics, motor control, control devices, and other power designs. The resistive element is specially designed for low inductance and capacitance, and provides stable performance in addition to high wattage and pulse loading capability. The high alumina content ceramic metallized base plate is ideal for heat transfer and optimum discharge into a heatsink.



## PFE/PFR

Designed in both Edgewound and Round Wire formats, these rugged resistors can handle 700 to 1000 Watts of power. Specify our Edgewound design for very low-resistance and high-power capacity. When higher resistance with lower power capacity is required, use our Round Wire design. These resistors are constructed of a heavy-resistance alloy mounted on ceramic insulators and supported by a metal mounting bracket. Metal parts, except for the resistance element, are heavily plated to prevent oxidation at high operating temperatures and to prevent corrosion. The mounting bar is slotted on each end to facilitate installation. Edgewound units provide clamp-type terminals, permitting a reliable connection which can be moved along the resistive element to obtain intermediate values.

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# OHMITE®

# Military / Aerospace

Flight Systems

Engines

Controls

## Ohmite Products for the Military / Aerospace Industry

When it's mission critical, you can't have a supplier flying blind. That's why our 90 years of expertise in aerospace, avionics, and defense is indispensable. Ohmite-patented technologies and engineered excellence deliver superior electromechanical systems. We develop custom solutions and key resistive and voltage control products for the widest range of customers, including all major aircraft OEMs and foreign and U.S. government agencies. Our integrated supply chain and global footprint can optimize any order.

The Military and Aerospace industries have requirements for superior reliability due to harsh environments and long service life. With a wide array of components for Motion Control, Circuit Conditioning and a complete line of Circuit Protection products, Ohmite can provide a high-reliability solution ranging from COTS (Commercial Off The Shelf) to fully-custom products.

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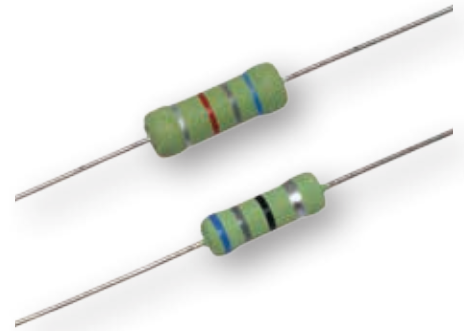
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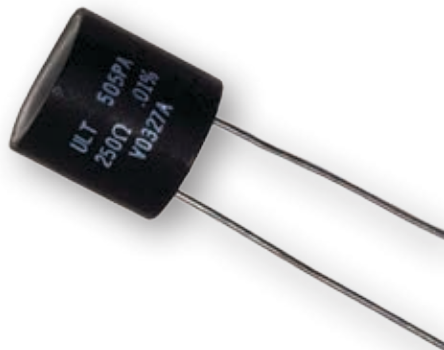
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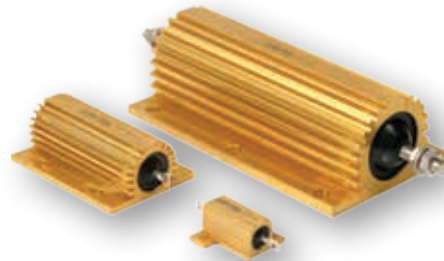
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## HPW Series

Ohmite's HPW Series of high-precision wirewound resistors offer excellent stability. TCR values can be specified down to 1ppm and tolerances down to 0.005%. The HPW Series uses all-welded construction for reliability, and both the bobbin and encapsulation are of the same molded thermoplastic material. This produces a part with great connection that is unaffected by violent temperature cycling.



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