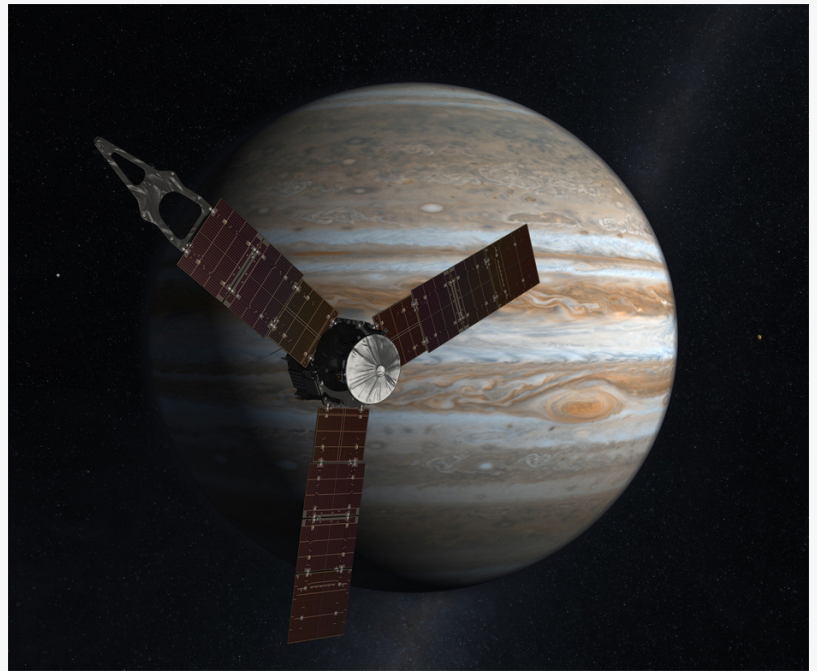


# Ohmcraft Leaded Resistors Enable Record-Breaking NASA Spacecraft to Explore Jupiter

ROCHESTER, NY, UNITED STATES, December 15, 2017 /EINPresswire.com/ -- More than six years ago, NASA launched its Juno spacecraft to explore Jupiter. After a five-year, 2.8-billion-kilometer journey to reach Jupiter, Juno has spent the last 18 months orbiting the planet, collecting data and images to help scientists understand its atmosphere, origin, and evolution. Two of the spacecraft's devices—JEDI and JADE—take samples of electric fields, plasma waves and particles around Jupiter to determine how the magnetic field is connected to the atmosphere\*. These instruments rely on [precision resistors](#) from Ohmcraft to function.



According to NASA, Juno and its various electronic devices are exposed to extreme amounts of radiation around Jupiter, which can cause significant amounts of damage. In planning Juno's mission, NASA required extremely reliable and durable [high voltage resistors](#) for this application. Ohmcraft worked closely with NASA to develop resistors that would meet these needs.

"We put the [surface-mount and leaded resistors](#) utilized on Juno through extensive testing to ensure they met the requirements of NASA's space/flight specifications," said Eric Van Wormer, Vice President of the Ohmcraft division of Micropen Technologies. "Obviously, reliability is critical, because once Juno was launched into space, there is no coming back. The resistors—and everything else—needed to perform flawlessly, and withstand nearly seven years of work and extreme conditions. The mission has been successful."

In February 2018, Juno's mission will be complete. The spacecraft has set two Guinness World Records: the first in January 2016, when it became the most distant solar-powered spacecraft, and the second in July 2016, when it became the fastest spacecraft ever.\*\*

\* Juno Mission Fact Sheet, NASA:  
[https://www.jpl.nasa.gov/news/fact\\_sheets/JUNO\\_Fact\\_Sheet\\_2016.pdf](https://www.jpl.nasa.gov/news/fact_sheets/JUNO_Fact_Sheet_2016.pdf)

\*\* Guinness World Records: <http://www.guinnessworldrecords.com/news/2016/7/nasa%E2%80%99s-juno-probe-recognised-by-guinness-world-records-as-fastest-ever-spacecraft>

Ohmcraft's thick-film, surface mount resistors are engineered to meet application specific needs. Our proprietary Micropen printing technology is the foundation for Ohmcraft's family of resistor products. Ohmcraft 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](http://Ohmcraft.com).

Heather Kowalczyk  
McDougall Communications  
585-434-2148  
[email us here](#)

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