



## High Performance Resistors for Space Instrumentation

Exxelia Ohmcraft provides designers of space instrumentation with resistors that are the foundation for building robust power supplies, sensors and imaging equipment. Exxelia Ohmcraft products have helped push forward scientific advancements in mass spectrometry, image intensifiers, X-Ray sources and spectroscopic analysis. We provide standard and custom products to many market leaders with the reliability that makes Exxelia Ohmcraft the resistor of choice for such critical scientific space applications.

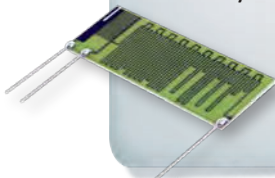


### Superior Performance

Our unique Micropen precision printing technology produces ultra-stable resistors with exceptional reliability that are perfectly suited for space flight applications. For over 20 years, Exxelia Ohmcraft has been designing resistors used in instruments on various spacecrafts. Our resistors enable the analytical equipment designed for strategic science missions which creates the space technology that explores outer space.

Exxelia Ohmcraft technology produces a superior resistor. The combination of our longer serpentine pattern and high-aspect ratio gives our resistors unmatched design flexibility, linearity, stability and low noise capability as well as:

- Ultra High Voltages up to 60 kV
- Extremely tight tolerances to 0.1%
- Very low TCR with extended temperature range
- Very low noise
- Very low VCR
- Ultra-high stability



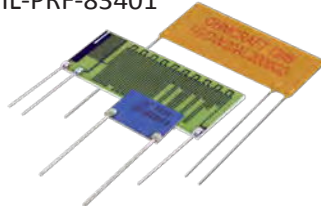
## Custom Designs For Space Applications

Exxelia Ohmcraft ability to design and deliver custom resistors is essential for space instrumentation designers. Our engineers work closely with you to design resistors that match your exact specifications.

- Surface-mount resistors, dividers and networks
- Extensive experience designing custom resistors and supporting source control drawings (SCD) for existing and new designs
- Engineering Models
- Flight Models

Exxelia Ohmcraft can perform Lot Acceptance Testing (LAT) on our resistor products using a number of Space and Military Specifications, including:

- NASA EEE-INST-002 Level 1, Level 2 or Level 3
- MIL-PRF-55342, MIL-PRF-49462 and MIL-PRF-83401
- MIL-STD-202
- ESCC 4001 (ESA/SSC 4001)



Exxelia Ohmcraft is the leader in high performance resistor design and manufacturing. Our proprietary Micropen precision printing technology enables superior precision thick-film resistors. Exxelia Ohmcraft can meet the most challenging space instrument specifications for high voltage and high value resistors.

## Applications

Exxelia Ohmcraft portfolio of rugged, high-quality resistor products includes MCH, HVR, HVD, HVA and custom designs for:

### Scientific Instrumentation

- Mass Spectrometers
- Ion Mobility Spectrometers
- Test Equipment
- Signal Generators
- Chemical / Mineral Sample Analysis

### Instrumentation Power Supplies

- High Voltage Custom Power Supplies

### Vision Systems

- Image Intensifier Circuits
- Optical Spectrometers
- Photomultipliers

To learn more, visit us online at [www.exxelia.com](http://www.exxelia.com)  
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