

Microcross Hi-Rel Power Solutions is a trusted expert in high-reliability DC-DC converters, offering a broad portfolio available in a wide range of packages for space, defense and aerospace, and other demanding environments.



## BOARD BASED DC/DC CONVERTERS



Qualified Designs Supporting All Major Satellite Ecosystems

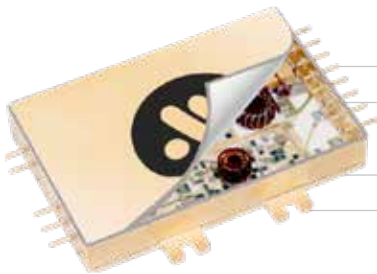
SiC & GaN Capabilities

100krad TID, 60MeV cm<sup>2</sup>/mg

Broadest Offering of Application Specific RF & Digital PSUs

- Application Specific RF and Digital Enabling Seamless Integration
- Outputs from 1V to 60V, Covering Digital to GaNRF Voltages
- Input Under Voltage Protection and Output Protection for Over Voltage and Short Circuit
- User Adjustable Output Voltage and Active Current Sharing
- Custom Designed Magnetic Core and Bobbin to Ensure Best Match to Actual Application Needs
- SCD Controlled EEE Parts
- Product Outputs Range from Single Output Up to Eight Outputs
- Radiation Hardened: >100 kRad, 60 MeVcm<sup>2</sup> / mg
- Generic PCB Platform Approach for Fast-Turn Delivery

## HERMETIC HYBRID DC/DC CONVERTERS



Most Rugged Rad-Hard Products > 200krads and LET Up to 82MeV cm<sup>2</sup>/mg

MIL-PRF-38534 Class H & K

Largest Offering for MIL-PRF-38534 Class K Hybrids

Broadest Offering of Input Voltages Supporting All Major Satellite Ecosystems

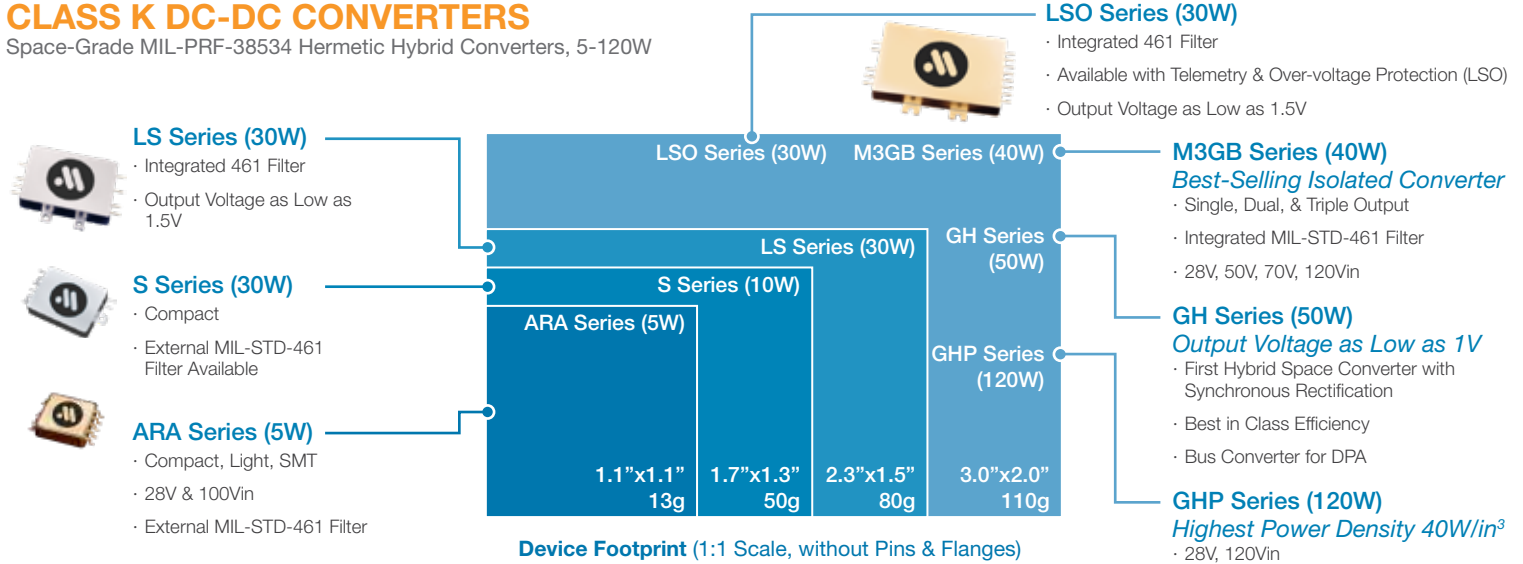
- Radiation Hardened: > 200 kRads and LET up to 82 MeV-cm<sup>2</sup>/mg
- Guaranteed EOL Performance... Critical for Long-Term Missions
- Overload, Short-Circuit and Under Voltage Protection
- Single, Dual and Triple Outputs with Adjustable Output Voltage
- Magnetically Coupled Feedback
- Built to Withstand -55°C to +125°C (without De-Rating)
- Compact, Low Profile Design fits any Specification or Custom Need
- Minimized Electromagnetic Interference, via Internal EMI Filters

## HI-REL EMI FILTERS

Complementary to our hermetic hybrid DC-DC converters, Microcross Hi-Rel Power Solutions' high-reliability and space EMI filters are designed for MIL-STD-461 compliance. Our EMI filters are manufactured on a fully qualified MIL-PRF-38534 line and offered in a range of input voltages and packages. US DoD DLA QPLs are also available.

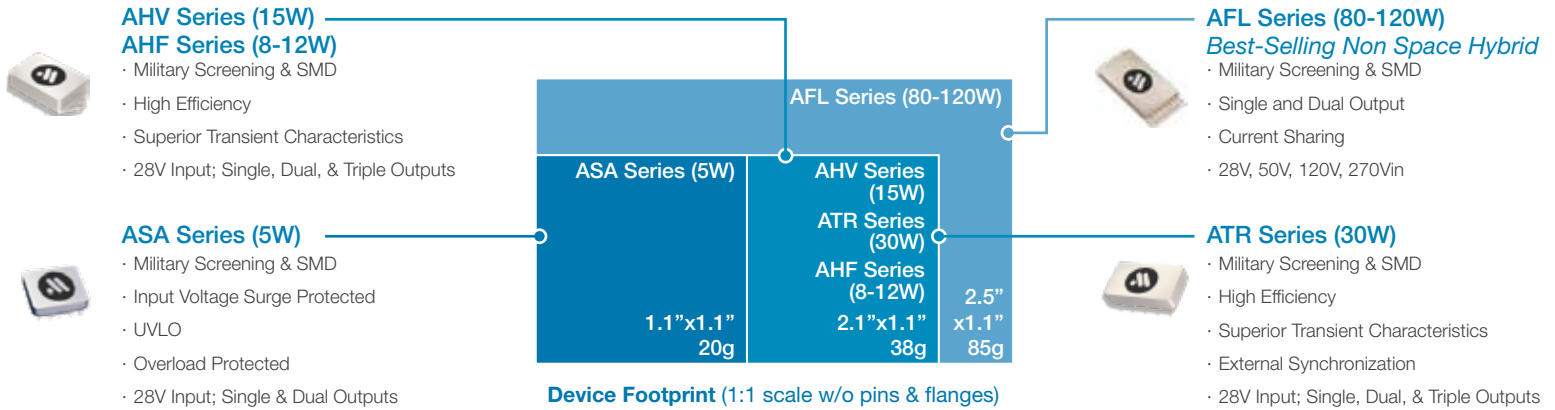
## CLASS K DC-DC CONVERTERS

Space-Grade MIL-PRF-38534 Hermetic Hybrid Converters, 5-120W



## CLASS H DC-DC CONVERTERS

MIL-PRF-38534 Hermetic Hybrid Converters, 5-120W



## CUSTOM PCB DC-DC CONVERTERS

MicroSS PCB Platforms can be Tailored to Customer Specification on Both Input & Output



### Need Information?