

# Rad hard MOSFETs & ICs product selector

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**IOR** HiRel  
An Infineon Technologies Company



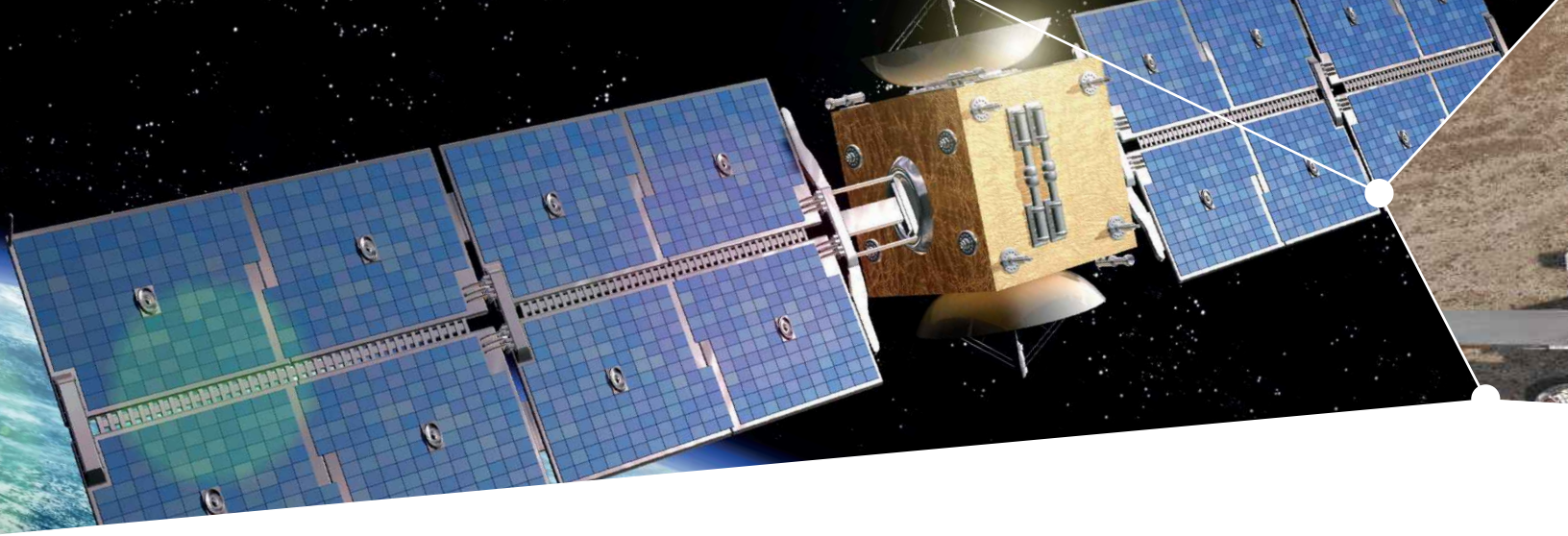


With the introduction of the industry's first rad hard MOSFET in 1987 to its latest generation of devices, IR HiRel has continually exceeded engineers expectations.

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# High-reliability power conversion solutions for space

Space and other harsh environment applications pose unique challenges for system designers. Electronics must be able to withstand severe thermal, mechanical, and radiation conditions with expected lifespans measured in decades.

Infineon, along with its IR HiRel subsidiary, is your source for high-reliability electronics for space use. We offer a unique portfolio of high-reliability, radiation-hardened (rad hard) power management solutions for extreme environments, such as those found in space, aerospace, defense and other industries. Our extensive portfolio includes:

- › Standard and custom high-reliability, rad hard and ruggedized discretes and integrated circuits
- › Microwave transistors and diodes
- › Defense, space and high temperature DC-DC converters
- › Other space components

Our HiRel products are used throughout spacecraft electrical power systems, and proven across thousands of programs globally that are still in flight today. Whether you're designing satellite buses, payloads, RF communications, or other spacecraft systems, we offer a broad selection of rad hard solutions qualified to European Space Agency (ESA) and Defense Logistics Agency (DLA) standards for our global customers.

Decades of space heritage in thousands of programs

An Infineon Technologies company, IR HiRel is a leader in rad hard power MOSFETs, having invented the HEXFET™ MOSFET in 1977 and becoming the first manufacturer to offer rad hard power MOSFETs for space in 1987. Since then, IR HiRel has continuously innovated in silicon design, packaging technology and quality with US DoD DLA QPL products up to MIL-PRF-19500 JANS level.

Infineon is likewise renowned globally in the space community for its flight heritage, having qualified the world's first rad hard superjunction MOSFET technology in 2012, and offering device qualification for its rad hard PowerMOS transistor portfolio per ESA ESCC 5000.

Customers benefit from our unparalleled expertise in power MOSFET radiation requirements. Our products and solutions are engineered for optimal performance and longevity in extreme environmental conditions, including exposure to severe ionizing radiation in space. Together, Infineon and IR HiRel offer the broadest portfolio of space power MOSFETs for applications in geosynchronous and geostationary orbit (GEO), Medium Earth Orbit (MEO) and Low Earth Orbit (LEO).

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