

# DEEP TECH FOR RADIATION MONITORING



**Varadis RADFETs** have been a radiation monitoring component of choice for **Space Organisations and Administrations** for two decades

## SPACE: OUR MISSIONS

Where have Varadis RADFETS been used?

- ◆ NASA's Living with a Star Program
- ◆ International Space Station
- ◆ EuCPAD dosimeter for astronauts
- ◆ GlobalStar
- ◆ Rosetta
- ◆ Galileo
- ◆ Alphasat
- ◆ ESA's STRV-1c
- ◆ JAXA's MDS-1 & SDS-1
- ◆ ESA's Chimera experiment

## Varadis RADFETS

Hermetically sealed, robust, discrete MOS transistors optimised for the detection of ionising radiation. Small and lightweight, combining the positive features of zero power passive dosimeters and the dynamic capability of active dosimeters.

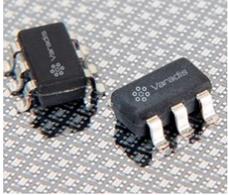
Varadis RADFETs are ideal for space applications, including housekeeping of satellites, space radiation environment studies, shielding analysis and monitoring of your radiation-hardened electronic components.



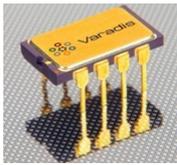
[sales@varadis.com](mailto:sales@varadis.com)

[www.varadis.com](http://www.varadis.com)

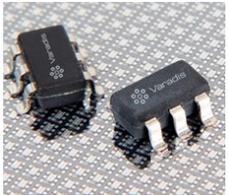
# VARADIS PRODUCTS



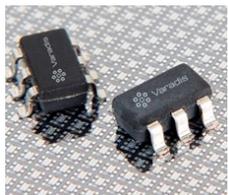
**Varadis VT01:** 400nm RADFET chip packaged in a plastic SOT-23 six lead package. The VT01 has a large dynamic range, from 1 cGy (1 rad) to beyond 1 kGy (100 krad). 2.90mm x 2.80mm x 1.10mm



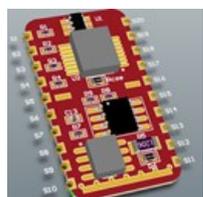
**Varadis VT02 :** 400nm RADFET chip packaged in a 14 lead ceramic side braze package. The VT02 has the same range as the VT01, from 1 cGy (1 rad) to beyond 1 kGy (100 krad). 10.3mm x 7.9mm x 3.05mm



**Varadis VT03:** 1 $\mu$ m RADFET chip packaged in a plastic SOT-23 six lead package. The VT03 has a large dynamic range, from 3 mGy (0.3 rad) to 80 Gy (8 krad) and beyond. 2.9mm x 2.8mm x 1.1mm



**Varadis VT05:** 100nm RADFET suitable for the highest doses, up to 10 kGy and even beyond. Packaging as per customer requirements. 2.9mm x 2.8mm x 1.1mm



**Varadis Evaluation Board:** multi RADFET compatible. Small PCB (28mm x 15mm x 3.5mm), optimised analog circuitry for RADFET read-out and can easily be integrated via standard header connector or soldered



**RADFET Reader PRO:** hand-held, battery-operated instrument designed for measuring the output voltage of Varadis RADFETs.

**Simple, immediate read out of radiation dose**

**Zero power consumption required**

**Large dynamic range**

**Smallest RADFET on the market**

**Competitively priced**

**Easily integrated into systems and wireless networks—IOT friendly**



**VARADIS RADFETS ON THE INTERNATIONAL SPACE STATION**