



145 Adams Avenue  
Hauppauge, NY 11788 USA  
[www.centrasemi.com](http://www.centrasemi.com)

For Immediate Release:

## Central Semiconductor Introduces New Spacellite™ MOSFETs Ideal for Low Earth Orbit Applications

press release



**Hauppauge, NY USA – June 20, 2023 – Central Semiconductor**, a leading manufacturer of discrete semiconductor solutions, has launched its highly anticipated Spacellite™ series with two space-grade devices. Both the CSLLDM22011-225F and CSLCDM22011-225F are N-Channel MOSFETs rated at 225V 11A, and are expected to be major contributors to the satellite market and other Hi-Rel solutions.

Qualified and Certified to Central's Spacellite™ qualification, based on the NASA PEM-INST-001 spec - the flagship CSLLDM22011-225F is identical to historically higher cost MOSFETs available for new space applications, offering enhanced performance. This device was tested to withstand radiation dosing up to 10 kRad, making it suitable for low earth orbit (LEO) environments.

The second MOSFET, the CSLCDM22011-225F, is an even more affordable part aimed at the emerging Hi-Rel commercial sector. Labeled "Spacellite™ Commercial," it passes the same 10 kRad radiation levels as well as a rigorous qualification flow, but foregoes the NASA PEM-INST-001 test and screening flows in favor of cost.

"When it comes to new space, Central is coming out with innovative cost-saving solutions," said Tom Donofrio, Central Semiconductor's Director of Marketing and Sales Operations. "by providing two uniquely competitive, COTS (commercial-off-the-shelf) options – one to meet LEO space operations, and one that extends the functionality of standard commercial devices with hope to meet a broader-range of customers' ever-changing requirements.

Both of these Spacellite™ MOSFETs feature a low gate charge of 4.45nC TYP and an ultra-low  $r_{DS(ON)}$  of 0.3Ω TYP. Currently, these devices are available in the TO-220FP fully plastic package. Additional available include SMD plastic and hermetic packages, bare die, and gold wire bonds. Customer specific requirements are always welcome. Spacellite devices will be available directly from Central Semiconductor.

For more information about Central's new Spacellite™ MOSFETs, visit <https://www.centrasemi.com/featured-products/39>.