

40 V Rad Hard GaN FETs Set New Performance Standards for Demanding Space Applications

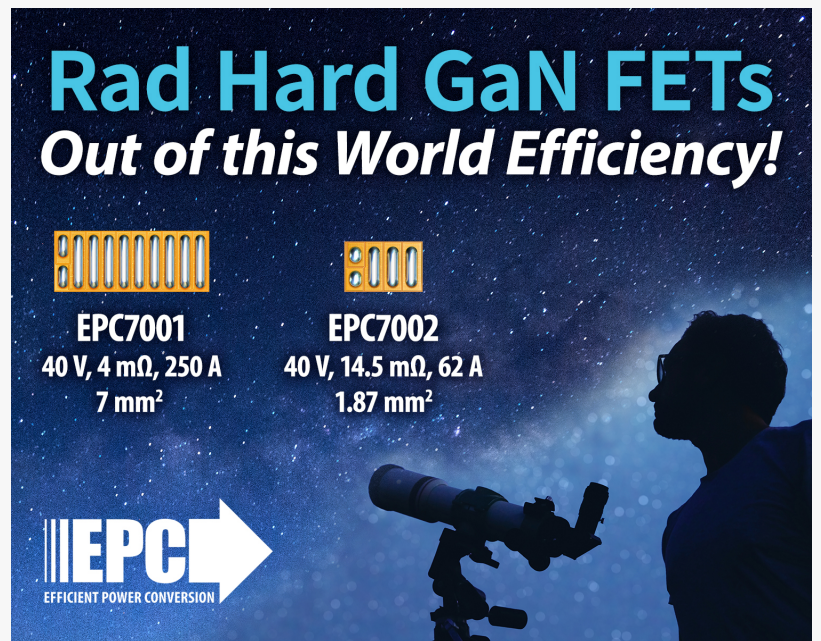
EPC expands its family of rad-hard gallium nitride power products with two new 40 V devices to address critical spaceborne and high-reliability applications.

EL SEGUNDO, CA, UNITED STATES, July 18, 2023 /EINPresswire.com/ -- EPC announces the introduction of two new 40 V rated radiation-hardened GaN FETs. [EPC7001](#) is a 40 V, 4 mΩ, 250 APulsed, rad-hard GaN FET in a small 7 mm² footprint. [EPC7002](#) is a 40 V, 14.5 mΩ, 62 APulsed, rad-hard GaN FET in a tiny 1.87 mm² footprint. Both devices have a total dose radiation rating greater than 1,000K Rad(Si) and SEE immunity for LET of 83.7 MeV/mg/cm² with VDS up to 100% of rated breakdown. These new devices, along with the rest of the Rad Hard family, are offered in a chip-scale package. Packaged versions are available from [EPC Space](#).

EPC's eGaN FETs and ICs offer a higher performing alternative to conventional rad hard silicon devices for high reliability and space applications. EPC's Rad hard devices are significantly smaller, have 40 times better electrical performance, and lower overall cost than rad hard silicon devices. Moreover, EPC's rad hard devices exhibit superior resistance to radiation, supporting higher total radiation levels and SEE LET levels compared to traditional silicon solutions.

Applications benefiting from the performance and fast deployment of these devices include DC-DC power converters, motor drives, lidar, deep probes, and ion thrusters for space applications. They are particularly well-suited for satellites operating in both Low Earth Orbit (LEO) and Geosynchronous Earth Orbit (GEO), as well as avionics systems.

"The Rad Hard product family provides unparalleled performance and reliability, coupled with significant space heritage for more efficient and robust systems covering a wide range of applications in harsh environments, such as space and other high reliability military



Rad Hard GaN FETs
Out of this World Efficiency!

Device	Specifications	Footprint
EPC7001	40 V, 4 mΩ, 250 A	7 mm ²
EPC7002	40 V, 14.5 mΩ, 62 A	1.87 mm ²

EPC
EFFICIENT POWER CONVERSION

"40 V Rad Hard GaN FETs Set New Performance Standards for Demanding Space Applications"



"The Rad Hard product family provides unparalleled performance and reliability, coupled with significant space heritage for more efficient and robust systems in harsh environments." "

Alex Lidow, CEO and co-founder of EPC

applications", said Alex Lidow, CEO, and co-founder of EPC.

Availability

The EPC7001 and EPC7002 are available for engineering sampling now.

About EPC

EPC is the leader in enhancement mode gallium nitride (eGaN®) based power management. eGaN FETs and

integrated circuits provide performance many times greater than the best silicon power MOSFETs in applications such as DC-DC converters, remote sensing technology (lidar), motor drives for eMobility, robotics, and drones, and low-cost satellites.

Visit our web site: epc-co.com

Follow EPC on social media: LinkedIn, YouTube, Facebook, Twitter, Instagram, YouKu

eGaN is a registered trademark of Efficient Power Conversion Corporation, Inc.

Press contact: Efficient Power Conversion: Renee Yawger tel: 908.619.9678 email: renee.yawger@epc-co.com

Renee Yawger
Efficient Power Conversion
+1 9086199678

[email us here](#)

Visit us on social media:

[Facebook](#)

[Twitter](#)

[LinkedIn](#)

[YouTube](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/644879719>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

