

For Immediate Release

New eBook from Mouser Electronics and Bourns Highlights Growing Role of Passive Components in Electronics Design

August 14, 2023 – [Mouser Electronics](http://www.mouser.com), Inc., the industry’s leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components™, has released a new [eBook](#) in collaboration with [Bourns](http://www.bourns.com), Inc., exploring the role of [passives](#) in emerging electronics applications, including renewables, hybrids, and [electric vehicles](#).

In [Passives and Their Emerging Applications](#), eleven experts from companies including Bourns, Eaton, Samsung Electronics, and Whirlpool offer their insights regarding the vital role of passives in electronic circuits. The eBook features five chapters focusing on different types of passives, as well as the long-term outlook for passives in the future of electronics design. Chapter topics include magnetics, circuit protection, current measurement, and resistive solutions for pre/discharging circuits.

Passive components play an essential role in the operation of electronic devices, supporting functions including signal processing, power conversion, [power management](#), and electromagnetic interference suppression. While passives have always been used in electronics, they are growing in importance for a range of next-generation solutions, including [5G](#) mobile networks, green energy storage, smartphones, and [autonomous vehicles](#). Passive components help facilitate electronic designs that are increasingly complex, ensuring reliable performance even in [harsh environments](#) with extreme temperatures, humidity or vibration.

The new eBook includes links to 10 relevant products from Bourns, including the [SRPWA](#) Series AEC-Q200 Compliant Shielded Power Inductors, the [PTVS1-0xxC-H](#) Series High Current Power TVS Diodes, the [CMP-Q](#) Series High Power Anti-Surge Chip Resistors, and the [PLN](#) Series Planar Transformers. Bourns’ reliable passive components deliver high current surge protection and reliable switching for demanding designs and applications.

Bourns’ range of products, available from Mouser, includes [connectors](#), [sensors](#), switches, and fixed resistors. To learn more about Bourns, visit <https://www.mouser.com/manufacture/bourns/>.

To read the new eBook, go to <https://resources.mouser.com/manufacture-ebooks/passives-and-their-emerging-applications/>.

To view all of Mouser’s eBooks, visit <https://resources.mouser.com/manufacture-ebooks/>.

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As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship™. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a [Technical Resource Center](#), along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

Engineers can stay abreast of today's exciting product, technology and application news through Mouser's complimentary e-newsletter. Mouser's email news and reference subscriptions are customizable to the unique and changing project needs of customers and subscribers. No other distributor gives engineers this much customization and control over the information they receive. Learn about emerging technologies, product trends and more by signing up today at <https://sub.info.mouser.com/subscriber/>.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 6.8 million products from over 1,200 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 650,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit <https://www.mouser.com/>.

About Bourns

Bourns is a leading manufacturer and supplier of automotive sensors, circuit protection solutions, magnetic products, microelectronic modules, trimming and precision potentiometers, panel controls, encoders, and resistive products. Headquartered in Riverside, CA, Bourns serves a broad range of markets, including telecommunications, computer, industrial, instrumentation, automotive, consumer, non-critical life support medical, audio, and various other market segments. Bourns' products are manufactured according to ISO-9000 standards under Six Sigma quality programs. Bourns automotive products are manufactured in accordance with IATF 16949.

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