

Power Products Article Archive

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Second-Gen MOSFET Drivers Are More Robust, *ON Semiconductor's NCV840x family of low-side self-protected MOSFET drivers*

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MOSFETs Take Top-Side Cooling A Step Further, *CSD16407Q5C, CSD16408Q5C, CSD16325Q5C, CSD16321Q5C, and CSD16322Q5C DualCool NexFET MOSFETs from Texas Instruments*

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Tantalum Capacitor Saves Space and Cost, *AVX's TPSC337*006#0080 and TPSC337*006#0100 330- μ F, 6.3-V tantalum capacitors*

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Driver IC Lights Up to 12 White LEDs in Series, Alpha & Omega Semiconductor's AOZ1950 white LED backlight driver

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Magnetics Product Roundup

Shielded SMT Inductors Feature High Current, Small Size, Gowanda Electronics' SMP1210S surface-mount inductors

Amorphous And Nanocrystalline Cores Come Standard Or Custom, Payton Group International's Amorphous And Nanocrystalline Cores

Small SMT Inductors Deliver High Efficiency, TT electronics BI Technologies' HA73 series of inductors

Cost-Effective Inductors Target High-Rel Applications, RAF Tabtronics' SESI power inductors

Inductors Handle High Currents, West Coast Magnetics' 306 and 308 series power inductors

Video Demos Performance of Low-Profile Inductors, Vishay Intertechnology's IHLP high-current inductors

Cores Optimize Chokes For Solar Power Inverters, SMP Sintermetalle Prometheus' chokes

Inductors Shrink Footprints for Class D Audio, ICE Components' 1D17A, 1D14A, and 1D10A series through-hole inductors

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Magnetics Design Software Solves Laminated Cores, *Ansoft's PExrpt software for the design, analysis, and optimization of transformers and inductors*

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GaN Power Transistors Seek To Replace Silicon Power MOSFETs, *Efficient Power Conversion's enhancement-mode GaN-on-silicon power transistors, models EPC1014, EPC1015, EPC1009, EPC1005, EPC1007, EPC1001, EPC1013, EPC1011, EPC1012, and EPC1010*

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GaN-Based Power Stages Look To Reshape Point-of-Load Landscape, *International Rectifier's iP2010 and iP2011 GaN-based power stage devices*

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Control IC Simplifies HID Ballast Design, *International Rectifier's IRS2573D HID ballast controller IC*

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Configurable AC-DC Power Supplies Now Meet Military Requirements, A division of Vicor, Westcor's configurable power supplies including the PFC Mini MI and PFC Micro/MicroS MI PFC ac-dc switchers, the PFC MegaPAC MI PFC ac-dc switcher; and the FlatPAC-EN MI, an EN-compliant autoranging switcher

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Automotive MOSFETs Promise Low $R_{DS(ON)}$ and Durability, International Rectifier's family of automotive-qualified MOSFETs, 22 models including AUIRF1324, AUIRF2804, AUIRF1404Z, AUIRF4104, AUIRF1010Z, and AUIRF3710Z

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DC-DC Converter Raises The Bar On Power Density, Picor's PI3101 Cool-Power isolated dc-dc converter

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Modules Optimize Cost-Performance Ratio For Appliance Motor Drives, STMicroelectronics' STGIPS10K60A, STGIPS14K60, STGIPL14K60, and STGIPS20K60 Intelligent power modules (IPMs)

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DC-DC Converters Deliver Fast Response and High Efficiency, *Semtech's SC173, SC174, and SC493 EcoSpeed dc-dc converter ICs*

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Low-Side Driver IC Targets Automotive Applications, *International Rectifier's AUIRS4426S is a dual-channel low-side driver IC*

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Isolated DC-DC Converter Operates Reliably From -55°C to +225°C,
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Embedded CPU Makes Power Management IC More Functional and Flexible In Portable Designs, Integrated Device Technology's P95020 portable power management IC

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Controller Exploits BJT To Cut Standby Power And Cost, CamSemi's C2163 primary-side sensing controller

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Boost Converters Feature Tiny Packaging and Low Input Voltage, Semtech's SC120, SC121 and SC122 boost converter ICs

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DC-DC Converter Delivers 1 kW In Extreme Environments, Absopulse Electronics' PDC 765 series encapsulated dc-dc converters

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Wirewound Resistors Offer High Power Ratings in Low-Profile Packages, Stackpole Electronics' MHL series of aluminum-housed wirewound resistors

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Rad-Hard LDOs Improve Performance And Availability, International Rectifier's 3-A rad-hard ultra-low dropout regulators

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Low-Profile Inductor Enables 1-cm High Power Supplies for LED Televisions, Payton Planar Magnetics' 8-mm high PFC boost inductor
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High-Side Active ORing Devices Deliver Fast Response for Intermediate Bus Applications, A subsidiary of Vicor, Picor's PI2007 and PI2127 high-side active ORing devices
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Negative 36-V LDO Delivers Low-Noise Performance, Texas Instruments' TPS7A30 negative 36-V low dropout regulator
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Power Chip Builds Efficient, Low-Cost Supplies for Industrial Applications, iWatt's iW1810 digitally controlled PWM IC with built-in BJT
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Point-Of-Load Regulators Extend Functionality and Performance, International Rectifier's IR3837M, IR3838M and IR3839M SupIRBuck point-of-load voltage regulator
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Novel Input Technology Pushes AC-DC Converter To High Performance, *Vicor's PFM VI BRICK power-factor-corrected ac-dc converter module, PF175B480C033FP-00*

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MOSFET Package Delivers Top-Side Cooling In Industry-Standard Footprints, *Fairchild Semiconductor's Dual Cool MOSFET packaging*

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