

Power Products Article Archive

Articles published in the January through December 2024 issues

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January 2024:

SPICE Library Adds SiC Power Devices And IGBTs, ROHM Semiconductor's expanded SPICE model lineup

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SiC MOSFET Half-Bridge Modules Are Engineered For Reliability, SemiQ's GCMX010A120B2B1P and other SiC MOSFET modules

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Student-Oriented Text Teaches Methods For Finding Transfer Functions, From Stairway Press, *The Fast Track to Determining Transfer Functions of Linear Circuits*

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SiC MOSFET Half-Bridge Module Is Hermetically Sealed, Solitron Devices' SD11487 SiC power module

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Low-Voltage HEMTs Come In Easy-To-Use Flip-Chip QFNs, Innoscience Technology's INN040FQ043A, INN100FQ016A, INN100FQ025A, INN150FQ032A, and INN150FQ070A GaN HEMTs

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GaN FETs With Integrated Gate Drivers Shrink AC-DC Adapters, Texas Instruments' LMG3622, LMG3624 and LMG3626 GaN FETs

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February 2024:

120-W DC-DC Converter Family Addresses Deep Space, New Space, And Defense Requirements, Crane Aerospace & Electronics' xMOR family of dc-dc converters

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Offline Switcher ICs Enable Design Of Highly Efficient, Compact USB PD Adapters, Power Integrations' InnoSwitch5-Pro switcher ICs

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ZVS Flyback Converter Chipset Offers Versatile, Efficient Design For USB-C PD Adapters And Chargers, Infineon Technologies' EZ-PD PAG2 ZVS flyback converter chipset

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Digital Totem Pole PFC Controller Adds 650-V Half-Bridge Gate Driver, Hynetek's HP1012 totem-pole PFC digital controller

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Fast-Switching GaN FETs Enable 75- To 231-A Laser Diode Control For Automotive LiDAR, EPC's EPC9179, EPC9181, and EPC9180 evaluation boards featuring pulse-current laser drivers

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100-V Bidirectional GaN IC For 48-V And 60-V Battery Management Systems, Innoscience Technology's INV100FQ030A member of the company's VgAN IC family

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Digital Isolators Support Speeds To 150 Mbps And Protection To 8 kV, NOVOSENSE Microelectronics' NSI824xWx quad-channel digital isolators

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1200-V SiC MOSFETs Target Industrial Applications, Nexperia's NSF040120L3A0 and NSF080120L3A0 SiC MOSFETs

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Solid-State Isolators Deliver Faster Switching With Lower Power Dissipation, Infineon Technologies' family of solid-state isolators (iSSIs)

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GaN FET Features 1-m Ω On-Resistance, EPC's EPC2361GaN FET

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Switcher ICs Improve Efficiency For Multi-Output Power Supplies, Power Integrations' InnoMux-2 power-supply ICs

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Space COTS DC-DC Converters Deliver Up To 100 W For New Space Applications, VPT's VSC100-2800S dc-dc converters

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Powder Cores Catalog Highlights New Materials, Magnetics' latest catalog

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Trench MOS Schottky Barrier Diodes Achieve Low Reverse-Recovery Time, ROHM Semiconductor's YQ series 100-V breakdown SBDs

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GaN Power Devices Enable Configurable, 1600-W DC-DC Solution For Space, VPT's SGRBX dc-dc converter box

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2000-V SiC MOSFETs Support Higher DC Link Voltages, Infineon Technologies' 2000-V CoolSiC MOSFETs

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IGBT Power Modules In Industry-Compatible Package Address A Range Of Application Requirements, Vishay Intertechnology's VS-GT100TS065S and other IGBT power modules

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ZVS Flyback Architecture Enables 70-W Output For AC-DC Converters Without PFC, Egtronic's 70-W QuarEgg architecture

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500-kW And 1,000-kW Programmable DC Power Supplies Deliver High Power Density Through Liquid Cooling, Magna-Power Electronics' ML series power supplies

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GaN Reliability Report Adds Overvoltage Guidelines, Information On Thermomechanical Wearout, EPC's Phase-16 Reliability Report

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Conductive Polymer Capacitors Comply With DLA 04051, KYOCERA AVX's TCD series DLA 04051 and COTS-Plus capacitors

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750-V SiC MOSFETs Enhance Performance Of Industrial And Automotive Applications,
Infineon Technologies' 750-V G1 discrete CoolSiC MOSFETs

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100-V Trench Schottky Rectifiers Boost Power Supply Efficiency,
STMicroelectronics' 100-V Schottky diodes including 28 variants such as the STPST1H100ZF

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DC Load Simulates AI Microprocessor Power Draw Below 0.8 Vdc,
Chroma's 63202A-20-2000 electronic load

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GaN Power Stage IC Is Rad Hard,
EPC Space's EPC7011L7SH GaN power stage

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Motor Gate-Driver IC Eases Migration From 12-V To 48-V Systems,
Infineon Technologies' MOTIX TLE9140EQW gate-driver IC

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Rad-Hard DC-DC Converter Is Tailored For Noise-Sensitive RF Applications,
VPT's SLNP17-100CQ dc-dc converter

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Embedded Motor Controllers Offer Increased Memory, Power And Reliability,
TDK's HVC 5222D and 5422D controllers

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IC Drives Low-, Medium- And High-Voltage E-mode GaN HEMTs,
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High-Rel, Snap-In Aluminum Electrolytic Capacitors For Industrial Designs,
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Rad-Hard ICs Deliver 300-krad TID For GEO Applications,
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Automotive DC Motor Predriver Simplifies EMI Optimization And Saves Power, STMicroelectronics' L99H92 automotive gate driver

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Power Magnetics Component Roundup

Power Inductors

- *Shielded Inductor Complements Battery Charger ICs, Bourns' Model SRP3212-1R0MR21 low-profile high-current inductor*
- *Inductors Feature Ferrite Core And Ferrite Shield For Low Magnetic Field Radiation, Bourns' Model SRR5228A and SRR5828A series power inductors*
- *Magnetically Shielded Inductors Feature Flat-Wire Windings, Sumida's DPQ3535/T150 and DPQ5050/T150 series AEC-Q200-qualified inductors*
- *Low-Profile Edge-Wound Inductor Delivers Saturation Current to 230 A, Vishay Intertechnology's IHDF-1300AE-1A through-hole inductor*
- *Shielded Flat-Wire Inductors Are Well Suited For Onboard Chargers, Sumida America's CDPQ****/T150 series high-current inductors*

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- *Planar Signal BMS Transformer Benefits EV And Energy Storage Systems, Bourns' Model SM91806 battery management system transformer*
- *BMS Transformers For EVs Offer Functional, Basic And Reinforced Insulation, iNRCORE's RA1058NL, RA1059NL, RA1060NL, RA1061NL, RA1062NL, RA1063NL and RA2055NL transformers*
- *Signal Transformer Is Optimized For Higher Energy Storage Battery Management Systems, Bourns' Model SM91801AL single-channel basic insulation transformer*
- *Compact SMT Transformers For Gate-Driver Applications, TDK's B78541A EPCOS InsuGate series transformers*

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- *Space-Grade Planar Transformers Offer Lower Cost And Smaller Size Than Traditional Planars, Vishay Intertechnology's SGTPL-2516 transformers*

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- *Current Transducer With Large Aperture For EV Test Benches And Battery Testing, Danisense's DN1000ID current transducer*
- *Current Transducer Offers Extra-Large Bandwidth For High-Frequency Applications, Danisense's DW series of closed-loop compensated zero-flux current transducers*

Chokes And Filters

- *Single-Phase EMI Filters For DIN Rail And DC Applications, TDK's B84742A*R725 series single-phase EMC filters*
- *Common-Mode Chokes Shrink Device Size For Space And Other High-Rel Applications, Vanguard Electronics' CMN4, CMN6, CMN7, CMN9, SCMN4, SCMN6, SCMN7 and SCMN9 choke inductors*
- *Automotive-Grade Common-Mode Chip Inductors Withstand Up To 4 A In A Compact Size, Bourns' Model SRF4532TA chip inductor series*

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- *High-Permeability Nanocrystalline Cores Come In C Shape, Magnetics' wide variety of high-permeability nanocrystalline cut cores for power transformers*
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1-kW System Brings Wireless Charging To Larger Mobile Robots, WiBotic's resonant wireless charging system

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Online Custom Magnetics Design House Launches Speedy Production Service, Frenetic Electronics' Frenetic Factory magnetics production service

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400-V SiC MOSFETs Benefit AI Server Power Supplies, Infineon's 400-V CoolSiC MOSFETs

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SiC JFET Brings Efficiency, Small Size And Robustness To Circuit Breakers, Qorvo's UJ4N075004L8S SiC JFET

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Single-Board Plug-And-Play Gate Drivers For 1.2-kV To 2.3-kV Dual IGBT Modules, Power Integrations' SCALE-iFlex XLT gate drivers

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Rad-Hard Arbiter IC Stops Propagation Of Power Supply Failures, Apogee Semiconductor's AP54RHC288 dual two-input arbiter

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App Note Describes Multiphase Interleaving Of Rad-Hard Power Modules, EPC Space's AN005 application note on interleaving the FBS-GAM02 and GAM02-PSE modules for POL applications

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1-pH ESL Silicon Capacitor Tightens Voltage Regulation For AI Chips, Empower Semiconductor's EC1005P 16.6- μ F silicon capacitor for high-frequency decoupling

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Rad-Tolerant 50-W DC-DC Converters Address New Space Needs, Microchip Technology's LE50-28 family of 50-W isolated converters

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LDOs Operate Up To 40-V Input, Offer Multiple Output Options And Low I_Q , STMicroelectronics' LDH40 and LDQ40 linear regulators

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Known-Good-Die Screening For SiC MOSFETs, SemiQ's known-good-die (KGD) screening process and additions to QSiC family of MOSFET half-bridge modules

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Power System Reliability Modeling Aims To Reduce Downtime In Data Centers, Infineon Technologies' Power System Reliability Modeling

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Multiphase Vcore Solution For Computing Systems Delivers Low Quiescent Power, Alpha and Omega Semiconductor's AOZ71137QI three-rail, seven-phase controller

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IGBT Modules Simplify Design And Reduce Costs For Renewable Energy Applications, onsemi's NXH800H120L7QDSG and SNXH800H120L7QDSG power modules

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BLDC Motor Hardware-Software Combo Slashes Inverter Sleep-Mode Consumption, Power Integrations' BridgeSwitch-2 integrated half-bridge motor-drivers

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GaN Power IC Packages Deliver Enhanced Thermal Performance, Cambridge GaN Devices' BHDFN-9-1 and DHDFN-9-1 packages

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50-V GaN FET Enables High Power Density In USB-C PD Applications, EPC's 50-V, 8.5-m Ω EPC2057 GaN FET

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650-V SiC Diodes Address Automotive And Wider Range Of Industrial Applications, Nexperia's 650-V, 10-A SiC Schottky diodes are automotive qualified (PSC1065H-Q) and available in real-two-pin DPAK packaging

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Silicon And SiC MOSFETs Support High Efficiency In Data Centers, onsemi's latest generation T10 PowerTrench family and EliteSiC 650-V MOSFETs

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1200-V SiC Schottky Diodes Increase Efficiency And Reliability, Vishay Intertechnology's 16 Gen 3 1200-V SiC Schottky diodes featuring a merged PIN Schottky design

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Second Edition Expands Reference On Wireless Power Transmission, Würth Elektronik's reference book "Trilogy of Wireless Power Transfer"

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GaN IPM Enables Smaller, More Efficient High-Voltage Motors, Texas Instruments' DRV7308 GaN IPM

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Capacitor Charger And Power Supply Eases Design Of Medical Laser Systems, Advanced Energy Industries' FlexiCharge FC2500 capacitor charger

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Field Programmable Controller Replaces Up To Six MCUs For EV Power Train Control And Energy Management, Silicon Mobility's OLEA U310 Field Programmable Control Unit

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MCU Family Targets Motor Control And Power Conversion Applications, Infineon Technologies' PSOC Control microcontrollers

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High-Density Power Supply Reference Design Delivers 4.5 kW For AI Data Centers, Navitas Semiconductor's 4.5-kW AI data center power supply reference design optimized with GaNSafe and Gen-3 "Fast" SiC power components

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Programmable DC Power Supplies Are Scalable To 10 MW, Magna-Power Electronics' ML series of 500-kW and 1-MW water-cooled programmable dc power supplies

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Ultra- And Hyperfast Recovery Rectifiers For Automotive, Nexperia's 650-V ultra- and hyperfast recovery rectifiers in D2PAK Real-2-Pin packaging

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Oscilloscope Series Offers New Bandwidth Options, Teledyne LeCroy's eight new WaveMaster 8000HD oscilloscope models

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VNA/FRA Delivers Higher Performance, New Features, OMICRON Lab's Bode 500 vector network analyzer

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Digital Signal Controllers Enhance Precision And Execution Of Real-Time Control, Microchip Technology's dsPIC33A core family of 32-bit DSCs

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650-V GaN Switches And Half-Bridges Feature Integrated Drivers, Infineon Technologies' CoolGaN Drive product family

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Remote Driver Systems Reduce Cost Of Industrial And Horticultural LED Lighting, Advanced Energy's LumaDrive remote centralized drivers

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eFuses Enhance Efficiency In 12-V Hot-Swap Applications, Nexperia's NPS3102A and NPS3102B electronic fuses

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Hybrid Si/SiC Power Modules Boost Power Density For Solar Power Generation And Energy Storage, onsemi's newest generation silicon and silicon carbide hybrid power integrated modules (PIMs) in F5BP packages

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Isolated Probing System For Precise Measurement Of Fast Switching Signals, Rohde & Schwarz's R&S RT-ZISO isolated probing system for its oscilloscope portfolio

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1200-V SiC MOSFETs Promise Greater Ruggedness And Reliability, NoMIS Power's N3T080MP120D and N3T035MP120D SiC MOSFETs

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Transformer Drivers Deliver High Efficiency In Industrial And Automotive Applications, Nexperia's NXF650x(A/B)-Q100 transformer drivers

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Highly Integrated PMIC Powers MPU Power Rails And System Peripherals, STMicroelectronics' STPMIC25 PMIC

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135-V And 150-V MOSFETs Enable Higher Efficiency In Drives And SMPSs, Infineon Technologies' OptiMOS 6 135-V and 150-V MOSFETs

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240-V, 1-kA Bidirectional Power TVS Diode Comes In Surface-Mount Package, Bourns' model PTVS1-240C-M PTVS

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SiC Power MOSFET Technology Is Tailored For EV Traction Inverters, STMicroelectronics' fourth-generation STPOWER silicon carbide MOSFET technology

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Half-Brick DC-DC Converter Delivers 1300 W And 28 V For Powering RF PAs, Advanced Energy's Artesyn ADH1300-48S28 dc-dc converter

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Automotive-Qualified Small-Signal MOSFETs In Tiny DFNs, Nexperia's single and dual small-signal MOSFETs in the DFN1110D-3 and DFN1412-6

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2000-V SiC Schottky Diodes Raise Efficiency For DC Link Systems, Infineon Technologies' CoolSiC Schottky diode 2000-V G5 family

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BMS Design Demonstrates Benefits Of Bidirectional GaN Transistor, Innoscience Technology's 48-V, 180-A BMS demo

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A Standardized And Modular DC Link Capacitor Design For xEV Traction Inverters, TDK's xEVCap dc link capacitor design

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Current Transducers With Voltage Output Simplify Measurement In DAQ Systems, Danisense's DS, DM and DL series current transducers

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GaN Power ICs Drive Ease-Of-Use, Lower System Cost And Energy Savings, Navitas Semiconductor's GaNSlim ICs

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Programmable Power Supplies Deliver 2 Or 3 kVA Of AC Power In 1U Chassis, From TDK, the TDK-Lambda brand GENESYS AC (GAC) and GENESYS AC PRO (GAC-PRO) series ac power sources

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High-Current-Density Power Modules Support AI Computing, Infineon Technologies' TDM2354xD and TDM2354xT dual-phase power modules

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High-Current Gas Discharge Tubes For AC And DC Power Line Designs, Bourns' GDT225EX and GDT230E series two-electrode GDTs

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IGBT And MOSFET Drivers In Stretched SO-6 Enable Compact Designs, From Vishay Intertechnology, the Vishay Semiconductors VOVD341A and VOVD343A IGBT and MOSFET drivers

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- *SMT Inductor Handles High Current, Sumida's CDMT60D60 power inductor with a magnetically shielded structure*
- *Inductors Deliver Low Core And Winding Losses For DC-DC Converters, Würth Elektronik's WE-MXGI series power inductors*
- *Inductors Feature High Saturation Currents, Sumida's CD****ME/DS series inductors with alloy powder cores*
- *Low-Profile Automotive Inductors Minimize Thermal Aging, Würth Elektronik's WE-LHCA inductor family*
- *Shielded Ferrite Inductors Are Offered In More Case Sizes, Vishay Intertechnology's shielded IFDC and semi-shielded IFSC series of wirewound, surface-mount inductors*
- *Shielded Metal Inductors Balance Saturation And Thermal Characteristics, Sumida's CYxxxxAT150/DS series AEC-Q200-qualified SMD inductors*
- *Low-Profile Dual-Winding Inductors Benefit SEPIC Converters, Bourns' Model SRF3015 shielded inductor series*
- *Shielded Flat Wire Inductors Offer Heights As Low As 0.7 mm, Bourns' Model SRP-F series inductors with low DCR*

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- *Resin-Shielded Ferrite Inductors Are Alternative To Drum-Ring Types, Sumida's CYRSxxxxT150/DS series AEC-Q200-qualified SMD inductors*
- *Metal Inductors Provide Low Inductance Values And High Current Ratings, Sumida's WMT0530T150/DS AEC-Q200-qualified SMD inductor series*
- *Metal Inductors Deliver Up to 100 μ H, Sumida's WMCxxxxBT150/DS series of AEC-Q200-qualified SMD inductors*
- *Two-In-One Metal Inductors For Class D Amplifiers And Other Automotive Circuits, Sumida's W2MCxxxx/DS series AEC-Q200-qualified inductors*
- *Automotive-Qualified SMD Alloy Powder Chokes Are Rated Up To 48 A, TDK's ERU27M series of high-current flat-wire inductors*
- *Thin-Film Power Inductors Measure 0.80 x 0.45 x 0.65 mm, TDK's PLE856C series of inductors for wearable devices*

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- *Low-Profile, High-Creepage Isolation Transformer For Gate Drives and BMSs, Bourns' AEC-Q200-compliant HVMA03F4A-LP8S series flyback transformers*
- *Custom Planar Transformers Span 5 W To 20 kW, Payton Planar's custom transformers*
- *Prototype Laboratory Opens For Customized Transformers, Würth Electronics Midcom's laboratory in Munich-Freiham for the production of transformer prototypes*

Chokes And Filters

- *Common-Mode Chokes Deliver Smaller Size For High-Power Industrial Applications, Schaffner's RT8121, RT8131, RT8521 and RT8531 chokes*
- *Wire-Wound Ferrites Support Filtering, Würth Elektronik's WE-RFI inductors in 0402 and 0603 case sizes*
- *Tube Magazines Facilitate Pick And Place Of Ring Core Chokes, TDK's tube magazines for several ring core chokes series*
- *Compact Chokes Feature Current Ratings To 120 A, TDK's ERU33M chokes using a new alloy powder core material with a softer saturation characteristic*
- *Choke Targets Electric Power Steering, Sumida's DEP2517ME/T150 THT shielded metal inductor, a metal-core, normal-mode choke*

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- *Multilayer Inductors For Automotive Power-Over-Coax, TDK's MLJ1005-G series of multilayer inductors*

Wireless Charging Coils

- *Wireless Charging Coils Provide Moisture Resistance Up to 90% RH In A Reduced Footprint, Vishay Intertechnology's Vishay Dale IWAS3222CZEB190JR1, IWTX4646DCEB240JR1, IWTX47R0DAEB6R3JR1, and IWTX47R0EBEB240JR1 transmitter and receiver coils*

Cores

- *Sizes Added For Power Core Shapes, Magnetics' 5241 block and 6034 rounded block sizes*
- *Updated Curve Fit Equation Tool For Powder Cores, Magnetics' new version of its Curve Fit Equation tool with updates to the core loss equation*

Other Magnetics News

- *Supplier Announces Expansion of its Magnetic Component Portfolio, Signal Transformer has introduced more than 1,200 new products over the past three years.*
- *Expanded Inductor Line Includes More Sizes, Higher Inductances And Voltages, Vishay Intertechnology has expanded its inductor product lines.*

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Multi-Output Switcher IC Pushes GaN To 1700 V, Power Integrations' IMX2353F InnoMux-2 power supply IC

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eFuses Deliver Precise I²t Wire Protection, Infineon Technologies' PROFET Wire Guard

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MCUs Enable More Accurate Fault Detection In Solar, Energy Storage And Motor Applications, Texas Instruments' TMS320F28P55x and F29H85x microcontrollers

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Power Modules Enable 48-V Power Systems For EVs, Vicor's BCM6135, DCM3735 and PRM3735 power modules

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USB-C Adapter Design Demonstrates Feasibility Of 240 W From A Single 1C Port, Pulsiv's USB-C design

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Bidirectional DC-DC Converter Boasts Ease Of Use For E-Mobility Applications, Calnex's 750-W BCE liquid-cooled dc-dc converter

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AEC-Q100 Current Sensors Eliminate External Isolation Components, NOVOSENSE Microelectronics' NSM211x series of fully integrated high-bandwidth, high-isolation current sensors

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IGBTs Addresses A Wide Range Of Applications, Microchip Technology's portfolio of IGBT 7 transistors in different packages, and multiple topologies, and current and voltage ranges.

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High-Side Gate Driver Protects Battery-Driven Applications, Infineon Technologies' EiceDRIVER 1EDL8011 gate driver

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40-V Trench MOSFETs Offer Enhanced Noise Immunity, STMicroelectronics' STripFET F8 MOSFETs with standard threshold voltage

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4-kJ Capacitor Charging And Power Conversion Platform For Medical Lasers, Advanced Energy Industries' Excelsys FC4000 capacitor charging unit with an integrated configurable 800-W ac-dc power supply

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