



Vishay Intertechnology, Inc.

Consumer (Gaming)



One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components





Consumer

Gaming

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| Game Consoles | 2 |
| Portable Game Consoles | 3 |
| Accessories / Controllers / Steering Wheels | 4 |

More information on the Engineer's Toolbox, including product datasheet links, can be found at www.vishay.com/ref/et3.

For inquiries, please contact your local sales representative.

Key components for
GAMING

Game Consoles



**Portable
Game Consoles**



**Accessories /
Controllers /
Steering Wheels**








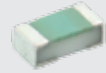




THE VISHAY ADVANTAGE

- Power Efficiency
- Small Size
- Low Weight
- Low-Profile Height
- Low-Switching Loss

Game Consoles



| | | |
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| <p>OPTOELECTRONICS</p> <p>IR Receiver Modules for Remote Control Systems</p>  <p>TSOP58...</p> <ul style="list-style-type: none"> • Industry leading range of 45 m, directivity of $\pm 45^\circ$ in a thru-hole package • Minimum irradiance of 0.12 mW/m², and featuring AGC-3 or AGC-4 noise suppression | <p>RESISTORS</p> <p>Power Metal Strip® Resistors, Low Value (Down to 0.0005 Ω), Surface-Mount</p>  <p>WSLx</p> <ul style="list-style-type: none"> • Extremely low resistance values from 0.0005 Ω to 0.5 Ω and tolerance of 1 % • Power Metal Strip all-welded construction offers high pulse capacity | <p>RECTIFIERS</p> <p>Dual Trench MOS Barrier Schottky Rectifier</p>  <p>VT2080C</p> <ul style="list-style-type: none"> • Trench MOS Schottky technology • Low forward voltage drop, low power losses |
| <p>TANTALUM CAPACITORS</p> <p>Solid Tantalum Chip Capacitors 298D MICROTAN®, 298W Extended Range MICROTAN</p>  <p>298D</p> <ul style="list-style-type: none"> • High capacitance in small case sizes including 0603 and 0402 footprint • Perfect for space constrained designs | <p>ICs</p> <p>50 A, 5 V / 3.3 V PWM Integrated DrMOS Power Stage</p>  <p>SiC780</p> <ul style="list-style-type: none"> • Intel DrMOS 4.0 compliant • MLP6x6-40L, 5 V / 3.3 V PWM Tri-state, THWN, DSBL#, SMOD | <p>INDUCTORS</p> <p>Low-Profile, High-Current IHLP® Inductors</p>  <p>IHLP</p> <ul style="list-style-type: none"> • Compact, high-current power inductor for DC/DC conversion and filter applications • High-frequency operation up to 5 MHz |
| <p>DIODES</p> <p>Surface-Mount TRANSZORB® Transient Voltage Suppressors</p>  <p>SMCJxx</p> <ul style="list-style-type: none"> • AEC-Q101 qualified • Available in unidirectional and bidirectional | <p>RESISTORS</p> <p>Professional Thin Film Chip Resistors</p>  <p>MCS0402...e3</p> <ul style="list-style-type: none"> • Excellent stability class 0.5, cost efficient • CECC approved acc. EN 140401-801, sulfur resistant | <p>MOSFETs</p> <p>N-Channel 30 V (D-S) MOSFET</p>  <p>SiSA18ADN</p> <ul style="list-style-type: none"> • TrenchFET® Gen IV technology for increased power density, maximum $R_{DS(on)}$ 7.5 mΩ • Thermally enhanced PowerPAK® 1212-8 is 1/3 the size of an SO-8 |
| <p>ICs</p> <p>60 A VRPower® Integrated Power Stage Offers Highest Power Density and Efficiency</p>  <p>SiC620</p> <ul style="list-style-type: none"> • 3 % better efficiency with 50 °C cooler operation in a 30 % smaller footprint • MLP5x5-31L, 5 V / 3.3 V PWM Tri-state, THWN, DSBL#, SMOD | <p>OPTOELECTRONICS</p> <p>High Luminous Intensity LEDs in 0603 ChipLED Package</p>  <p>VLMx1300</p> <ul style="list-style-type: none"> • Available in blue, true green, yellow green, yellow, soft orange, super red, and white • Angle of half intensity: $\pm 65^\circ$, 1.6 mm x 0.8 mm x 0.8 mm (L x W x H) | <p>DIODES</p> <p>4-Line Bus-Port ESD Protection, Flow Through Design</p>  <p>VBUS54ED-FBL</p> <ul style="list-style-type: none"> • Very low profile – typical height of 0.65 mm • Soldering can be checked by standard vision inspection |

View datasheets for these products
www.vishay.com/ref/et3cn3a



Portable Gaming Consoles




View datasheets for these products
www.vishay.com/ref/et3cn3b


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|---|---|---|
| <p>INDUCTORS</p> <p>Low-Profile, High-Current IHLP® Inductors</p>  <p>IHLP-1616ABER1R0M01</p> <ul style="list-style-type: none"> • High-current, very low profile power inductor for DC/DC conversion and filtering • High-frequency operation up to 5 MHz | <p>MOSFETs</p> <p>Dual N-Channel 30 V (D-S) MOSFETs</p>  <p>SiZ340DT</p> <ul style="list-style-type: none"> • TrenchFET® Gen IV technology for increased power density, maximum $R_{DS(on)}$ 5.1 mΩ • PowerPAIR® package optimizes high and low side MOSFETs to increase efficiency | <p>RESISTORS</p> <p>Professional Thin Film Chip Resistors</p>  <p>MCS0402...e3</p> <ul style="list-style-type: none"> • Excellent stability class 0.5, cost efficient • CECC approved acc. EN 140401-801, sulfur-resistant |
| <p>RECTIFIERS</p> <p>High Current Density Surface-Mount Trench MOS Barrier Schottky Rectifier</p>  <p>V8PM12</p> <ul style="list-style-type: none"> • Trench MOS Schottky technology • AEC-Q101 qualified | <p>RESISTORS</p> <p>Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value</p>  <p>RCWE</p> <ul style="list-style-type: none"> • Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 % • Thick film construction with 2x power capacity | <p>OPTOELECTRONICS</p> <p>High-Speed Infrared Emitting Diodes, 890 nm, GaAlAs, DH</p>  <p>VSMF2890GX01</p> <ul style="list-style-type: none"> • 890 nm emitting diode in GaAlAs technology with high radiant power of 40 mW, $I_F=100$ mA • 2.3 mm x 2.3 mm x 2.8 mm gullwing SMD pkg., ± 12° angle of half intensity |
| <p>ICs</p> <p>20 mΩ, Slew Rate Controlled Load Switch in WCSP6</p>  <p>SiP32458</p> <ul style="list-style-type: none"> • Low and flat R_{ON} over the full operation voltage range • Features low I_Q, reverse blocking with guaranteed less than 10 μA leakage | <p>OPTOELECTRONICS</p> <p>Fully Integrated Proximity and Ambient Light Sensor with I²C Interface</p>  <p>VCNL4020</p> <ul style="list-style-type: none"> • Infrared emitter is included in the 4.9 mm x 2.4 mm x 0.83 mm SMD pkg. • 16-bit resolution, proximity range of up to 20 cm with programmable thresholds | <p>DIODES</p> <p>4-Line Bus-Port ESD Protection, Flow Through Design</p>  <p>VBUS54ED-FBL</p> <ul style="list-style-type: none"> • Compact LLP2510-10L package • Soldering can be checked by standard vision inspection |
| <p>TANTALUM CAPACITORS</p> <p>vPolyTan™ Polymer Tantalum Capacitors</p>  <p>T55</p> <ul style="list-style-type: none"> • High-capacitance, low-ESR polymer tantalum capacitors • Stable electrical performance over temperature and voltage | <p>ENERGY STORAGE CAPACITORS</p> <p>Hybrid Storage Capacitors</p>  <p>196 HVC ENYCAP™</p> <ul style="list-style-type: none"> • Extreme small profile with high energy density • Instant rechargeable, suitable for solar power charging | <p>OPTOELECTRONICS</p> <p>IR Receiver Modules for Remote Control Systems</p>  <p>TSOP6236TR</p> <ul style="list-style-type: none"> • Low supply current, photo detector and preamplifier in one package • Supply voltage: 2.5 V to 5.5 V, improved immunity against ambient light |

Accessories / Controllers / Steering Wheels




ICs
Low-Voltage Dual SPDT Analog Switch with Negative Swing Audio Capability 
[DG2750](#)

- Supports negative swing signal down to -2 V
- 0.6 Ω low switch on resistance, and 4 pC low charge injection

TANTALUM CAPACITORS
Solid Tantalum Surface-Mount Chip Capacitors, TANTAMOUNT[®], Standard Industrial Grade 
[293D](#)


- Molded tantalum capacitor, standard industrial grade
- General purpose capacitor

ICs
Low-Voltage, Fault Protection, SP3T Analog Switch (3:1 Multiplexer / Demultiplexer) 
[DG2522](#)


- 0.8 Ω low switch on-resistance and 105 MHz bandwidth
- Power over V+ rail protection with guaranteed low leakage under fault condition

TANTALUM CAPACITORS
Solid Tantalum Chip Capacitors 298D MICROTAN[®], 298W Extended Range MICROTAN 
[298D](#)

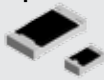
- High capacitance in small case sizes including 0603 and 0402 footprint
- Perfect for space constrained designs

NON-LINEAR RESISTORS
SMD 0603, Glass Protected NTC Thermistors 
[NTCS0603xx](#)


- Standard series, AEC-Q200 compliant
- Glass protected with soft terminations

MOSFETs
P-Channel 20 V (D-S) MOSFET 
[Si2367DS](#)


- Classic TrenchFET[®] technology with on-resistance rating down to 1.8 V
- Popular SOT-23 packaging

RESISTORS
Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value 
[RCWE](#)


- Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity

ICs
1.1 V to 5.5 V, Slew Rate Controlled Load Switch 
[SiP32408](#)

- Flat row R_{ON} down to 1.2 V, 42 m Ω typical from 1.5 V to 5 V
- Slew rate controlled turn-on: 2.5 ms at 3.6 V

DIODES
Low-Capacitance Bidirectional Symmetrical (BiSy) Single Line ESD-Protection Diode 
[VBUS05A1-SD0](#)


- Ultra compact CLP0603 package
- Low package height < 0.3 mm

INDUCTORS
Low-Profile, High-Current Inductors 
[IFSC](#)

- Very small ferrite power inductor for DC/DC conversion and filtering

RESISTORS
Professional Thin Film Chip Resistors 
[MCS0402...e3](#)

- Excellent stability class 0.5, cost efficient
- CECC approved acc. EN 140401-801, sulfur resistant

RECTIFIERS
Surface-Mount Schottky Barrier Rectifier 
[SS32-M3](#)

- Low-profile package
- Low power losses, high efficiency, low forward voltage drop, high surge capability

View datasheets for these products
www.vishay.com/ref/et3cn3c





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A *WORLD OF*
SOLUTIONS