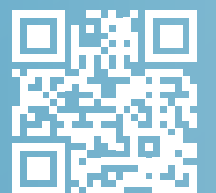


POWER PRODUCTS

OVERVIEW

muRata
INNOVATOR IN ELECTRONICS





Front-End

- ▶ **Output power range:** 450 to 3200W
- ▶ **Power density:** Up to 97.8W/in³
- ▶ **Efficiency:** Meets 80Plus Platinum / Titanium standards
- ▶ **N+1 redundancy:** Hot-pluggable, up to 8 units in parallel
- ▶ **Active current sharing** on 12V main output
- ▶ **Integral ORing MOSFET** isolation
- ▶ **Intelligent power management** via PMBus™ / I²C interface
- ▶ **Wide AC input range** with active PFC



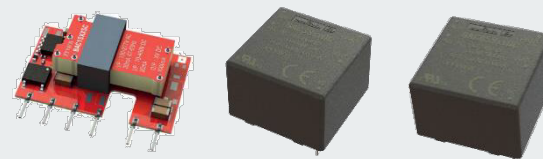
Data Center and Open Compute

- ▶ **Output power range of PSU:** 3k to 5.5kW
- ▶ **Output power range of Power Shelf:** 12k to 33kW (Up to 6 PSUs per shelf)
- ▶ **Efficiency:** 80 Plus® Titanium and Ruby certified PSU
- ▶ **High reliability:** Redundant design (N+1 or N+N)
- ▶ **OCP compliance:** V1 to V3 Open Rack standards
- ▶ **Control unit:** Supporting RMU (remote management unit) for multiple protocols
- ▶ **Accessories:** Rack mount kit, blanking panel, input cable optional



Open Frame

- ▶ **Output power range:** 250–1000W
- ▶ **Up to 95% efficiency** at full load
- ▶ **Thermal management:** Optional cover kit and cooling fan
- ▶ **Safety compliance:** IEC62368 compliant, IEC60335 certified
- ▶ **Medical certificates:** IEC60601 Ed.3 Medical, with 2 × MOPP Pri-Sec isolation
- ▶ **Medical applications:** Applied Part B & BF rated (600–1000W)



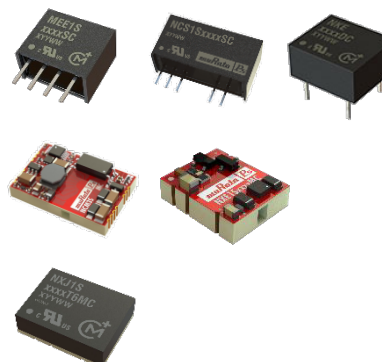
Board Mount

- ▶ **Output power options:** 1 or 3 or 5W
- ▶ **Wide input voltage range**
- ▶ **Wide industrial temperature range:** -40° C to +85° C
- ▶ **Ruggedized design:** Operates efficiently in harsh environments
- ▶ **Reinforced insulation:** Provides exceptional safety
- ▶ **Safety compliance:** UL62368-1, ES60601-1 approvals
- ▶ **IEC certifications:** IEC61558-1 & IEC61558-2-16
- ▶ **EMC performance:** EN55032 Class B (radiated/conducted)



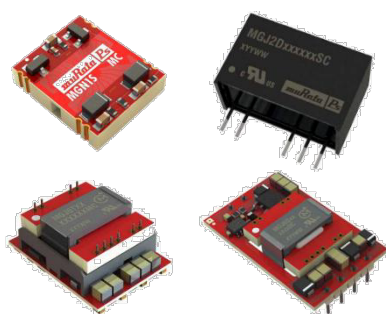
Isolated Bus Converter

- Wide output power range: Up to 1500W
- Diverse DOSA compliant product family: Half brick to 1/32 brick
- High efficiency: Up to 97% (typ.)
- Wide operating temperature range: Up to 125° C
- Optional: PMBus digital control and power good signal



Isolated Low Power

- Wide isolation voltage range: Up to 8kVdc
- Wide input and output voltage range: Supports 3.3V to 24V
- Flexible: Single, dual, or triple outputs products available
- Wide operating temperature: Up to 125° C
- Enhanced technology: Utilizes innovative embedded design, advanced SMT, and backend processing for higher reliability
- Safety compliance: UL62638 / 60950 certificated
- Medical certificates: IEC60601 Ed.3 Medical, with 2 × MOPP Pri-Sec isolation



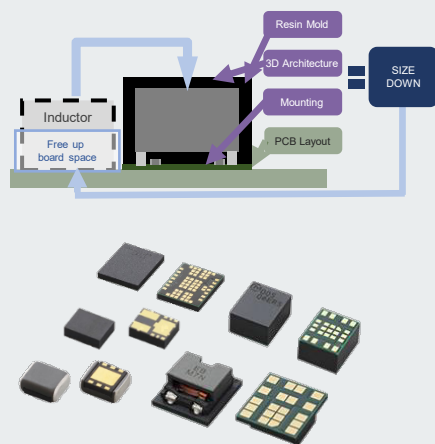
Isolated Gate Drive

- Ultra-low isolation capacitance: 3 pF for reduced noise
- Suitable for IGBT, SiC and MOSFET gate drives: Optimized bipolar output voltages
- Enhanced reliability: Embedded transformer technology
- High voltage capability: DC link withstand up to 3 kV
- dv/dt immunity: Up to 80 kV/μs at 1.6 kV
- Characterized partial discharge performance



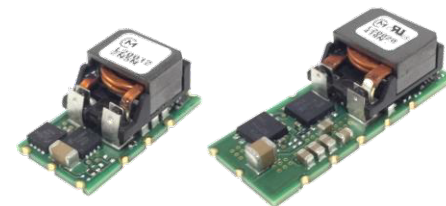
Isolated Rugged Board Mounted

- Wide Input voltage ranges: From 9-160V in a single module
- Stable no-load operation for reliable performance
- Operating temperature ranges: -40° C to +85° C
- High efficiency: up to 91.5% (typ.)
- High isolation voltage: 4250Vdc
- Safety compliance: UL / EN / IEC 60950-1, 2nd Edition
- Rugged design: Optimized for harsh industrial and railway applications



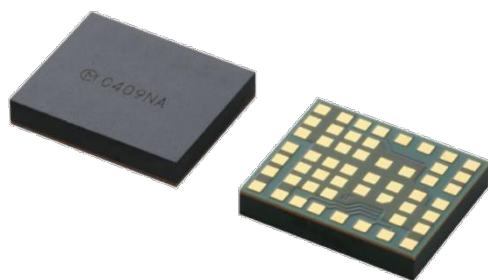
Non-isolated Surface Mount

- **Small step-down module solution**
- **Compact package:** Surface-mount, downsized module design
- **Fast transient response:** Low noise and ripple achieved by minimizing the current loop with 3D structure
- **High reliability:** Enhanced heat-shock resistance and thermal performance via resin molding construction
- **Advanced efficiency:** Select models utilize 2-stage architecture



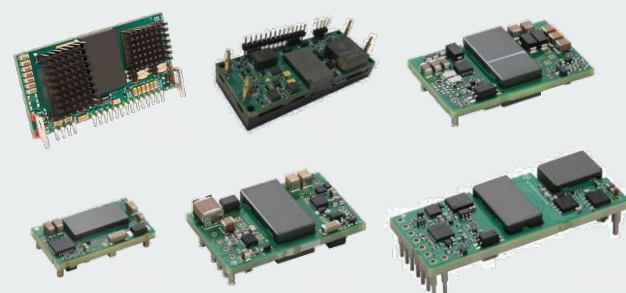
Non-isolated DOSA Compliant

- **DOSA standard form factor**
- **Smaller dimension:** SMT / SIP package
- **Wide input voltage range:** Up to 40V
- **Settable output voltage:** Up to 15.5V
- **iLGA (Inspectable Land Grid Array) Package:** Enables easier visual inspection and analysis
- **High load drive:** Supports up to 1000µF ceramic capacitors
- **Safety compliance:** UL / EN / IEC 60950-1, 2nd Edition



Non-isolated Charge Pump

- **Fixed ratio:** Input voltage: Output voltage = 4:1
- **Input voltage range:** 20 to 60 V (48V bus)
- **Charge pump topology** with own semiconductor
- **Ultra-high efficiency:** Up to 96.5%
- **Ultra-low profile:** Back-mounted option for reduced space and loss
- **Parallel capability:** Supports up to 4 units in parallel
- **Low voltage with high frequency operation:** Fewer additional components needed



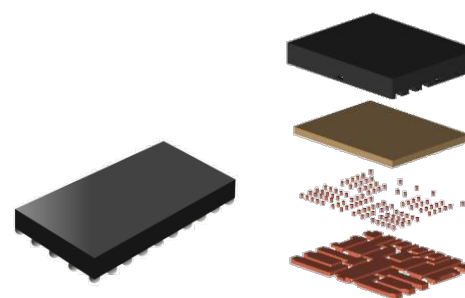
For PoE (Power over Ethernet)

- **IEEE 802.3 af / at / bt standard compliant** (PoE / PoE+ / PoE++)
- **High efficiency:** Up to 93.2% (typ.)
- **Improved EMI performance** for reduced noise
- **PD Controller Integrated** (PD modules)
- **Low-profile with compact package:** Select models offered as surface-mount
- **Operating temperature range:** -40° C to +85° C



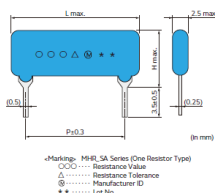
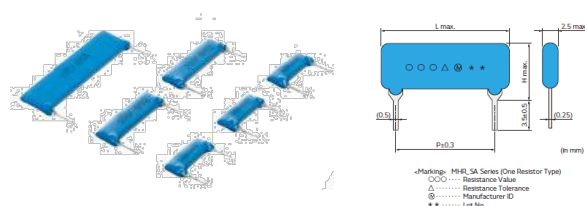
Magnetics

- Product Category: Inductors, transformers, and common-mode chokes
- Designed for effective noise suppression and protection of critical components
- Ensures reliable operation in demanding applications.



Power Semiconductor

- Product category: Charge pump capacitor divider, 2-stage buck regulator, 2-stage boost regulator
- Ultra-compact design: WLCSP or QFN package with a small footprint and low profile
- Ultra-high efficiency: Up to 99% (typ.)
- Virtually lossless conversion for maximum energy transfer
- Soft-switching topology (charge pump)
- Better EMI performance and higher reliability



High Voltage Resistor

- Wide resistance range of standard type: 1M to 10GΩ
- Resistance of anti-pulse type: 1kΩ (15kV pulse voltage peak)
- Narrow Tolerance for high reliability: down to ± 0.5%
- Optional in series: Two resistors with 3-pin package
- High flexibility: Supports series connection
- Space-saving design for compact layouts

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