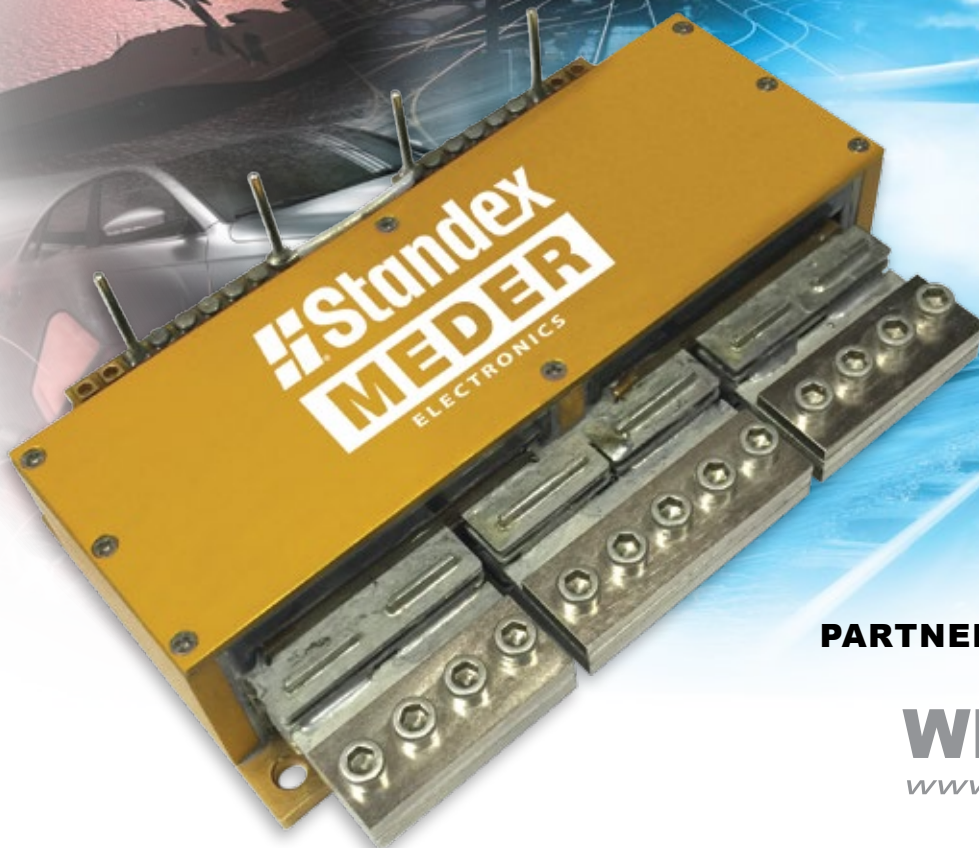
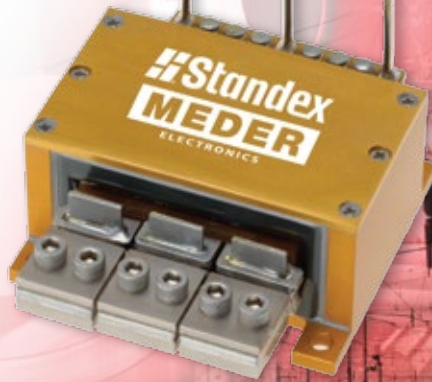


PLANAR Magnetics DESIGN



PARTNER | SOLVE | DELIVER™

WE MATTER.™
www.standexmeder.com

WHAT WE DO

Our team has been providing solutions through high-performing products since the 1950's. Through growth, acquisition, strategically partnering with customers, and applying the latest engineering designs to the needs of our ever-changing world, our technology has infused transforming results into an array of customer's needs – ultimately providing quality results to the end-user. Our approach that fuels this is achieved by:

1. Partnering with the customer
2. Confronting a challenge to solve
3. Delivering solutions and products that address your needs as a business.

WHAT WE BELIEVE

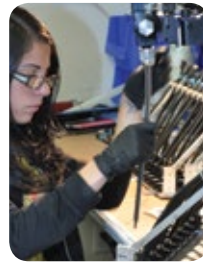
Our values and what we believe align to the **partner, solve, and deliver** approach. We produce parts but we are more than that. Connecting with your team as a strategic partner, listening to your challenges, and arriving at ways to solve your complex problems through our solutions are why we exist. Whether it's custom or standard we have capabilities that address your needs. Our team leverages our dynamic and diverse engineering expertise and other resources such as our global facilities for logistics and production.

CAPABILITIES

Standex-Meder Electronics has a commitment to absolute customer satisfaction and customer-driven innovation, with a global organization that offers premier sales support, engineering capabilities, and technical resources worldwide. At Standex-Meder Electronics, customer-specific product development has never been a problem. With our expert engineering staff and cutting-edge manufacturing capabilities, we are well-equipped to produce unique solutions for just about any environment or application.

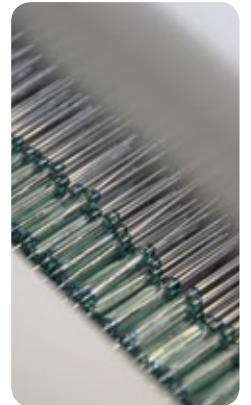
MANUFACTURING

Auto AT Switch Sorting
Bobbin and Toroidal Winding
Auto Termination
Coil Molding & Packaging
Insert and Thermoset Molding
Laser Welding
Low Pressure Molding (Hot Melt)
Pick & Place – Vision & Camera System
Plasma Surface Treatment
Plastic Injection Molding
Potting - 2 Component
Progressive Stamping
Reflow Oven – Multiple Zone Convection
Reed Switch Manufacturing
Reed Relay Design and Manufacturing - SMD,
Low Thermal, High Insulation, High Voltage,
High Frequency, Latching and ATEX, Selective
Soldering
Stainless Steel Fabrication



QUALITY / LAB CAPABILITIES

Certifications: AS9100, ITAR, ISO9000,
TS16949, IP67
SPC Data Collection
Fully Equipped Certified Test Labs
Burn-in and Life Testing
Complete In-House Machine Shop
Corona Discharge Testing Capabilities
Mechanical and Thermal Shock
Microscopic Investigation / DPA
Moisture Resistance and Seal Testing
Radiographic Salt Fog and Solderability
Scott T Angular Accuracy
Terminal Strength
Thermal Cycling
Temperature Rise and Vibration



TESTING & TOOLING

Automated Assembly and Test Systems
Environmental and Durability Testing
Life Testing
Specialized Lab Testing Equipment including
but not limited to: Network Analyzers, Flux-
meters, Nanovoltmeters, Picoammeters, De-
structive Pull Testers, Gauss / Teslameters



ENGINEERING

Electronic sensor engineering
Circuit Design and PCB Layout
Patented Conductivity Sensors
Patented Inductive Sensors
3-D CAD Modeling
3-D Magnetic Sensor Mapping
EMS Software
PCB Prototyper
Quick Turn Samples, 3-D Printing

“CUSTOM IS STANDARD” - Why SME Planar Transformers & Inductors?

As more and more industries begin to feel the push toward higher efficiency and performance along with miniaturization, the planar transformer continues to emerge as an alternative to wire-wound transformers, making it ideal in certain application “sweet spots”. This solution makes so much sense for today’s applications, and when you combine planar transformers with excellent engineering, you can get a solution that not only saves you space, time, and costs, but suits your needs uniquely and specifically. We are your **“Application Engineering Experts”**.

The unique P025 - P1100 product line of planar transformers come in **standard sizes** and with hundreds of lead frames and PCB windings in stock, they can be **quickly customized often without start-up or tooling costs** for many power topologies, including soft switching, single or multiple outputs, different switching frequencies, and different input/output voltages as well as multi-winding inductors. Refer to the below Custom Design Guide Overview.

STANDEX-MEDER UNIQUE ADVANTAGES

- Patented (U.S. PAT. 7,129,809) header and terminal (U.S. PAT. 7,460,002) design yielding superior thermal management
- Direct thermal contact between bottom of ferrite core and heat dissipating substrate
- Can attach to a substrate/heatsink with controlled temperature
- Stable and precise co-planarity of terminals on both sides
- Excellent solderability characteristics
- Planar turn surface in direct contact core backwall, thus greatly improving thermal conductivity and reducing EMI
- Flexible, low impedance terminations
- Able operate without any air flow for cooling
- Meets required min. 8mm clearance and creepage

- Large core surface promotes heat transfer
- Low loss, reliable PCB construction
- AC Resistance and Proximity Cu Loss Minimized

APPLICATIONS

- AC-DC resonant designs
- Aerospace & Military (high reliability/repeatability)
- Appliance
- Automotive, Electric and Hybrid Vehicles
- Battery Charging (12V, 24V, 48V, 1-10 KW)
- DC-DC Converters (100W-1200W) in distributed power systems
- Distributed Isolated Power
- Feedback Control
- High Current POL Converters
- High Power LED Lighting, Industrial Power, Welding
- Isolated Inverters
- Isolated (non-regulated) Bus Converter (Vout 9-12V)
- Renewable Energy - Wind & Photovoltaic Power System
- Server – Data Centers (400VDC)
- Telecom Applications (“Sweet Spot” 36-72 Vin 40-250W)
- Welding, Lasers, Test Equipment

ELECTRICAL & MECHANICAL SPECS

- Height - low profile
- Low leakage inductance
- Repeatable leakage inductance, capacitance
- Volumetric efficiency (small size)
- Low turns count improves Cu loss
- Optimized core cross section lowers core loss

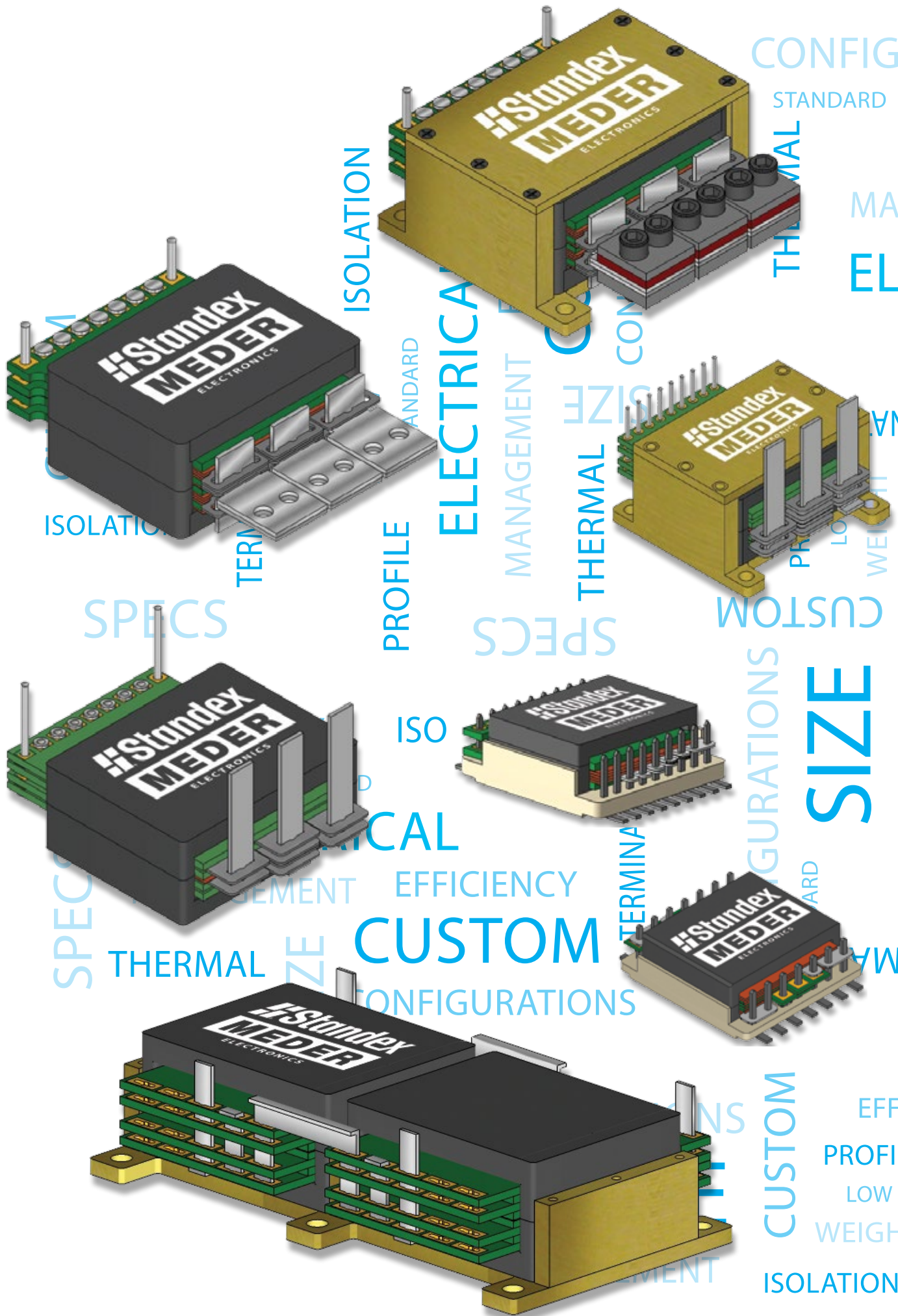
Planar Magnetics Custom Design Guide

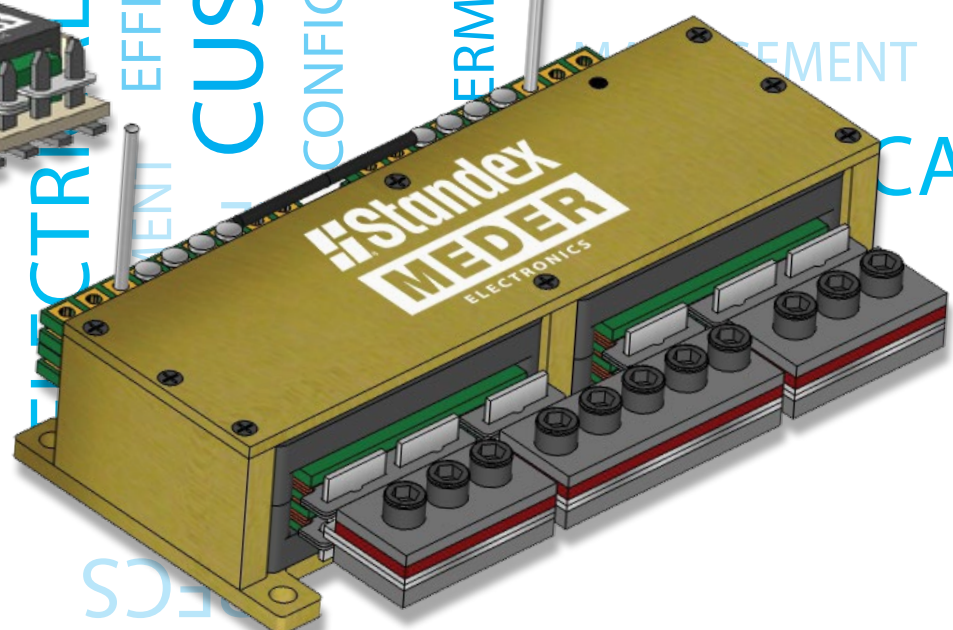
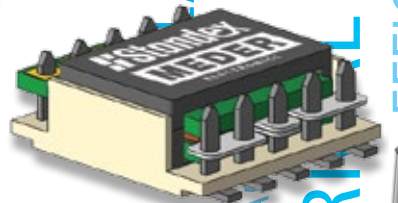
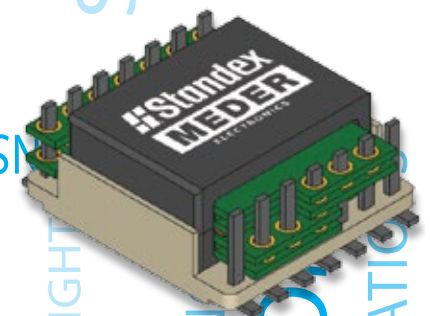
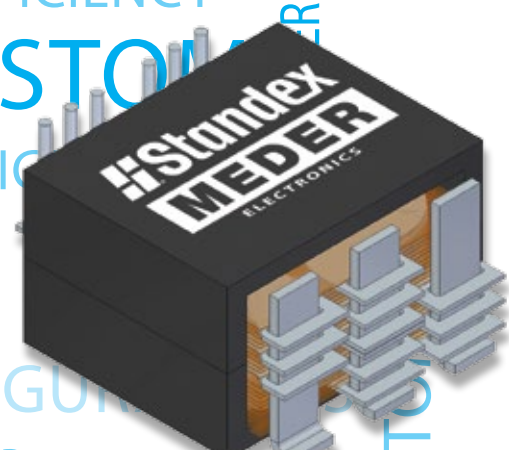
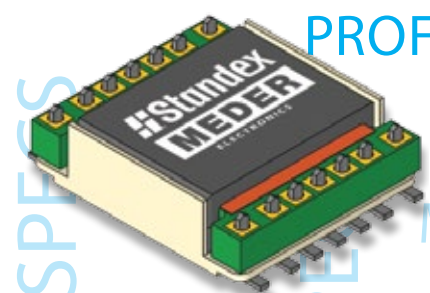
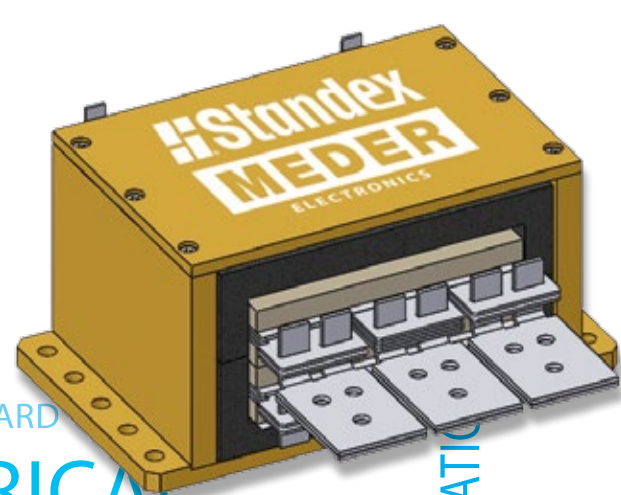
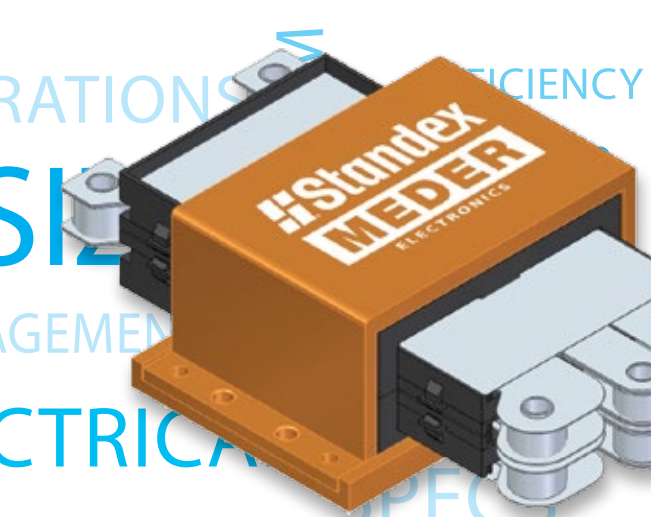
Size	Page #	Optimum Power Range	Max Current Rating	Typical Topology	Optimum Frequency Range kHz	Typical Dimensions L x W x H (1) mm	Isolation Voltage Pri - Sec (VDC) Pri - Core (VDC)
P025 (3)	6	10W - 50W	20A (2)	Forward, Flyback	300 - 500	17.0 x 15.7 x 6.3	500 - 2000 VDC
P035 (3)	7	20W - 150W	30A (2)	Half Bridge, Forward, Flyback	200 - 400	22.9 x 19.8 x 7.6	500 - 2000 VDC
P055 (3)	8	50W - 200W	50A	Half Bridge, Forward, Flyback	175 - 300	24.1 x 21.8 x 9.1	500 - 2000 VDC
P075 (3)	9	100W - 500W	50A (2)	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull, Flyback	150 - 300	35.0 x 26.3 x 10.2 28.7 x 26.3 x 10.2	5000 VDC 500 - 2000 VDC
P110 (3)	10	150W - 700W	60A (2)	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	100 - 250	39.9 x 28.4 x 12.7 33.5 x 28.4 x 12.7	5000 VDC 500 - 2000 VDC
P135	11-12	300W - 1.2kW	100A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	100 - 250	44.4 x 32.0 x 15.2 38.1 x 32.0 x 12.7	5000 VDC 500 - 2000 VDC
P220	13-14	1kW - 3.0kW	250A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	60 - 200	50.8 x 40.6 x 20.3 45.7 x 40.6 x 17.8	5000 VDC 500 - 2000 VDC
P350	15-16	2kW - 6kW	300A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	40 - 150	58.4 x 50.8 x 25.4 53.3 x 50.8 x 21.6	5000 VDC 500 - 2000 VDC
P560	17-18	3kW - 10kW	400A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	40 - 125	71.1 x 64.0 x 30.5 66.0 x 64.0 x 25.4	5000 VDC 500 - 2000 VDC
P900	19-20	10kW - 20kW	500A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	40 - 125	118.1 x 110.7 x 43.9	5000 VDC
P1100	21	10kW - 30kW	600A	Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull	20 - 125	144.8 x 94.0 x 38.1	5000 VDC

1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements

2) Current rating is 30% higher for through hole applications

3) Available in both SMD and through hole versions





Background word cloud including: ELECTRICAL, CUSTOM, SIZE, PROFILE, LOW, STANDARD, CONFIGURATION, THERMAL, WEIGHT, RELATION, STANDARD, EFFICIENCY, MANAGEMENT, EFFICIENCY, TERMINATIONS, ELECTRICAL, CONFIGURATION, STANDARD, THERMAL, WEIGHT, RELATION, STANDARD, EFFICIENCY, MANAGEMENT, EFFICIENCY, TERMINATIONS, ELECTRICAL, CONFIGURATION, STANDARD, THERMAL, WEIGHT, RELATION, STANDARD, EFFICIENCY, MANAGEMENT, EFFICIENCY, TERMINATIONS.

SIZE P025

Power Range 10W-50W



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DESIGN EXAMPLES

Design Example Part #	Input Voltage VDC	Pri. Np Turns (Pins)	Sec. Ns1 VDC	I Out. Max ADC	Sec. Ns1 Turns (Pins)	Sec. Ns2 VDC	Sec. Ns2 Turns	Height mm (in) Typ.
1125-1	36 - 75	12 (1-5)	3	30	2 (6,7-9,10)	-	-	6.4 (0.250")
1125-2	18 - 36	6 (1-3)	3	30	2 (6,7-9,10)	-	-	6.4 (0.250")
1125-3	36 - 75	12 (1-5)	5	20	3 (6-10)	-	-	6.4 (0.250")
1125-4	18 - 36	6 (1-3)	5	20	3 (6-10)	-	-	6.4 (0.250")
1125-5	36 - 75	12 (1-5)	12	2.5	8 (7-9)	-	-	6.4 (0.250")
1125-6	18 - 36	6 (1-3)	12	2.5	8 (7-9)	-	-	6.4 (0.250")

Notes: Full electrical, thermal, and efficiency calculations available upon request 1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements. 2) Estimated value for normal conditions. Current rating can be up to 30% higher for through hole applications.

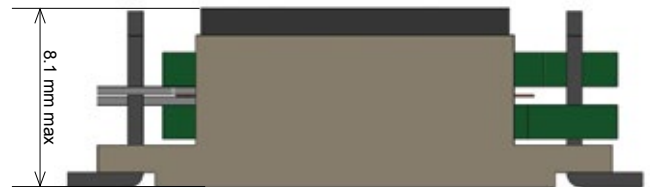
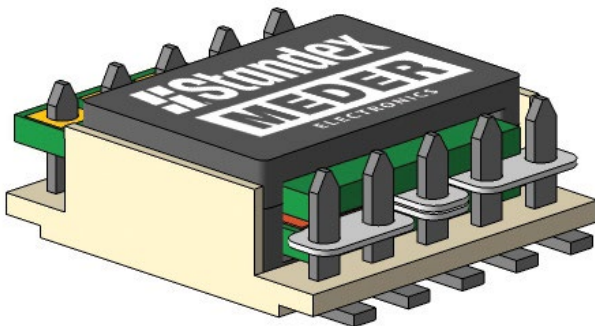
Highlights

- Patented (U.S. PAT. 7,129,809) design with superior thermal management
- High efficiency (low losses), ultra compact, low-profile
- Great co-planarity of terminals due to patented header offering repeatable height
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages

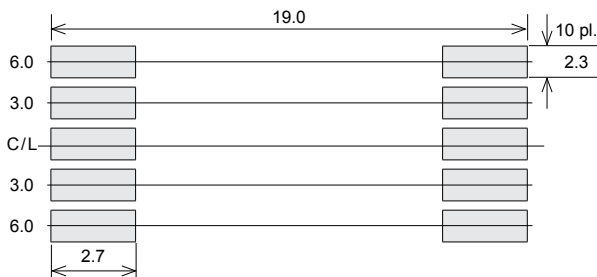
Customize beyond these examples!

Rated power 10W-50W / Frequency range 300-500KHZ
 Surface mount (SMD) or through hole (TH)
 Topology - Forward (w/active rest), Flyback
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-2,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

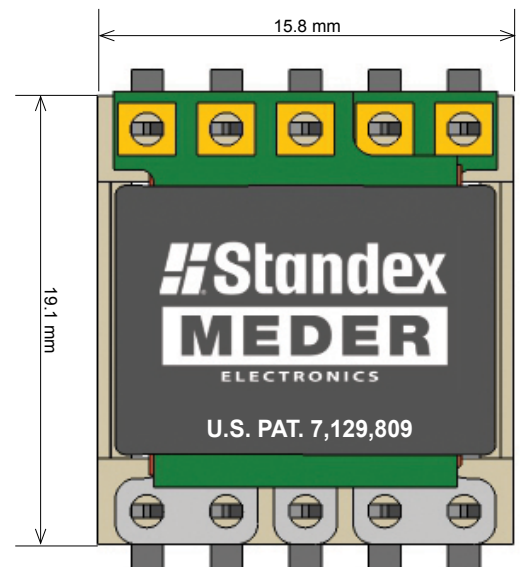
SURFACE MOUNT DESIGN



PCB Pad Layout
All Pad dimensions tolerance +/- 0.1



- Notes**
1. Dimensions are in mm
 2. Drawing not to scale
 3. Tolerance +/- 2% unless noted
 4. Header: LCP, natural color
 5. Pins: Copper
 6. Pin Finish: Tin (Sn) over Nickel (Ni)



These models are for reference only and may NOT exactly match the design examples provided.

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SIZE P035

Power Range 20W-150W



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DESIGN EXAMPLES

Design Example Part #	Input Voltage VDC	Pri. Np Turns (Pins)	Sec. Ns1 VDC	I Out. Max (2) ADC	Sec. Turns (Pins)	Sec. Ns2 VDC	Sec. Ns2 Turns	Height mm (in) (1) Typ.
1124-1	36 - 75	12	3	30	2	-	-	7.6 (0.300")
1124-2	18 - 36	6	3	30	2	-	-	7.6 (0.300")
1124-3	36 - 75	12	3	30	2	12	8	8.1 (0.320")
1124-4	18 - 36	6	3	30	2	12	8	8.1 (0.320")
1124-5	36 - 75	12	5	20	3	-	-	7.6 (0.300")
1124-6	18 - 36	6	5	20	3	-	-	7.6 (0.300")
1124-7	36 - 75	12	5	20	3	12	8	8.1 (0.320")
1124-8	18 - 36	6	5	20	3	12	8	8.1 (0.320")
1124-9	36 - 75	12	12	8	8	-	-	7.6 (0.300")
1124-10	18 - 36	6	12	8	8	-	-	7.6 (0.300")
1124-11	36 - 75	12	12	8	8	12	8	8.1 (0.320")
1124-12	18 - 36	6	12	8	8	12	8	8.1 (0.320")

Notes: Full electrical, thermal, and efficiency calculations available upon request 1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements. 2) Estimated value for normal conditions. Current rating can be up to 30% higher for through hole applications.

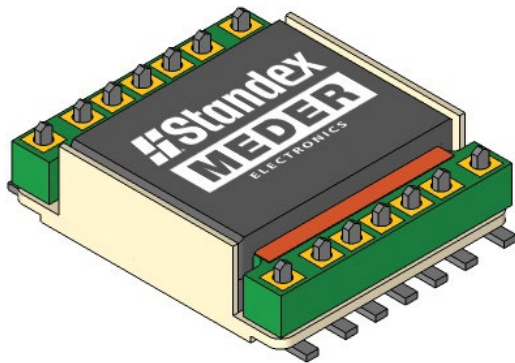
Highlights

- Patented (U.S. PAT. 7,129,809) design with superior thermal management
- High efficiency (low losses), ultra compact, low-profile
- Great co-planarity of terminals due to patented header offering repeatable height
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages

Customize beyond these examples!

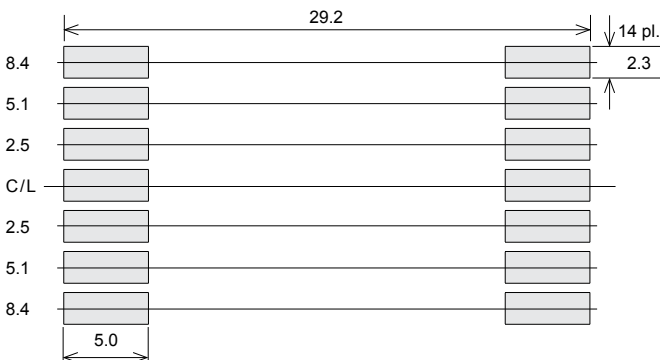
Rated power 20W-150W / Frequency range 200-400kHz
 Surface mount (SMD) or through hole (TH)
 Topology - Half-Bridge, Forward (w/active rest), Flyback
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-2,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

SURFACE MOUNT DESIGN



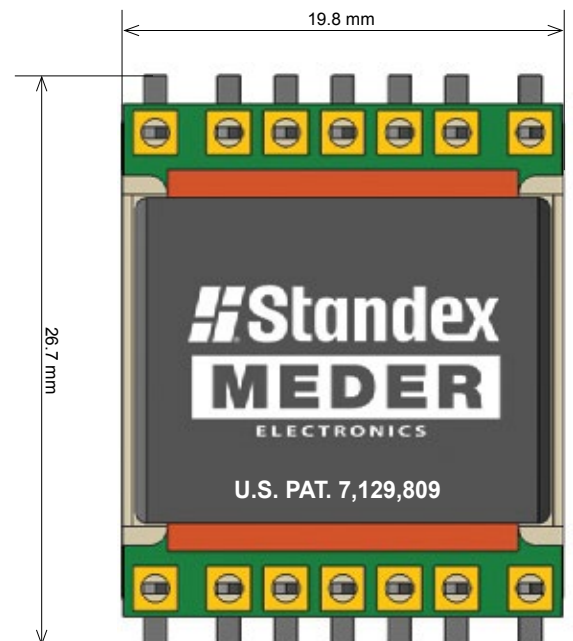
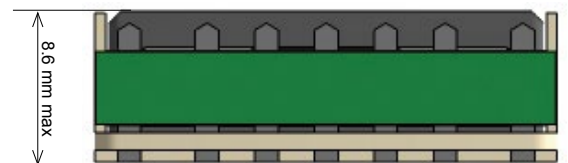
PCB Pad Layout

All Pad dimensions tolerance +/- 0.1



Notes

1. Dimensions are in mm
2. Drawing not to scale
3. Tolerance +/- 2% unless noted
4. Header: LCP, natural color
5. Pins: Copper
6. Pin Finish: Tin (Sn) over Nickel (Ni)



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:: DESIGN EXAMPLES ::

Design Example Part #	Input Voltage VDC	Pri. Np Turns (Pins)	Sec. Ns1 VDC	I Out. Max (2) ADC	Sec. Turns (Pins)	Sec. Ns2 VDC	Sec. Ns2 (3) Turns	Height mm (in) (1) Typ.
1250-1	36 - 75	8	2.2	50	1	-	-	9.1 (0.360")
1250-2	18 - 36	4	2.2	50	1	-	-	9.1 (0.360")
1250-3	36 - 75	12	3.3	35	2	-	-	9.6 (0.380")
1250-4	18 - 36	6	3.3	40	2	-	-	9.6 (0.380")
1250-5	36 - 75	8	5	30	2	-	-	9.6 (0.380")
1250-6	18 - 36	4	5	30	2	-	-	9.6 (0.380")
1250-7	36 - 75	8	12	12.5	5	-	-	9.6 (0.380")
1250-8	18 - 36	4	12	12.5	5	-	-	9.6 (0.380")
1250-9	200-350	48	28	5	12	-	-	10.7 (0.420")
1250-10	200-350	48	48	2.5	24	-	-	10.7 (0.420")
P055 ALTERNATE DESIGNS								
1284-1	36 - 75	10	-	15	2	-	-	-
1284-2	18 - 36	5	-	15	2	-	-	-

Notes: Full electrical, thermal, and efficiency calculations available upon request 1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements. 2) Estimated value for normal conditions. Current rating can be up to 30% higher for through hole applications. 3) Ns2 / Ns3 max. load current output after rectification by (turns) as follows: (8) = 2.5 A each, (7) = 3.0 A each, (6) = 3.5 A each, (5) = 4.5 A each, (4) = 5.75 A each, (3) = 7.5 A each, (2) = 10.0 A each

SIZE P055

Power Range 50W-200W

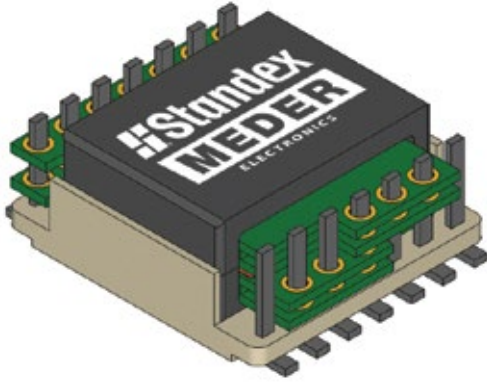
Highlights

- Patented (U.S. PAT. 7,129,809) design with superior thermal management
- High efficiency (low losses), ultra compact, low-profile
- Great co-planarity of terminals due to patented header offering repeatable height
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages

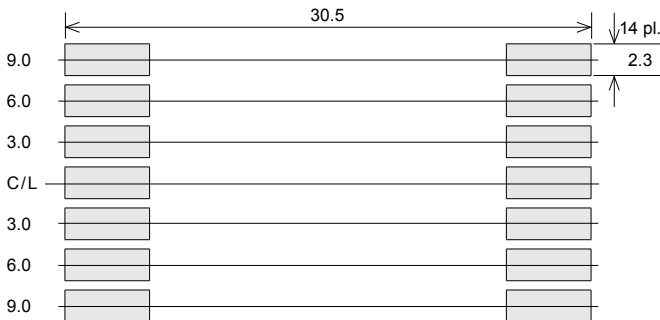
Customize beyond these examples!

Rated power 50W-200W / Frequency range 175-300kHz
 Surface mount (SMD) or through hole (TH)
 Topology - Half Bridge, Forward (w/active rest), Flyback
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-2,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

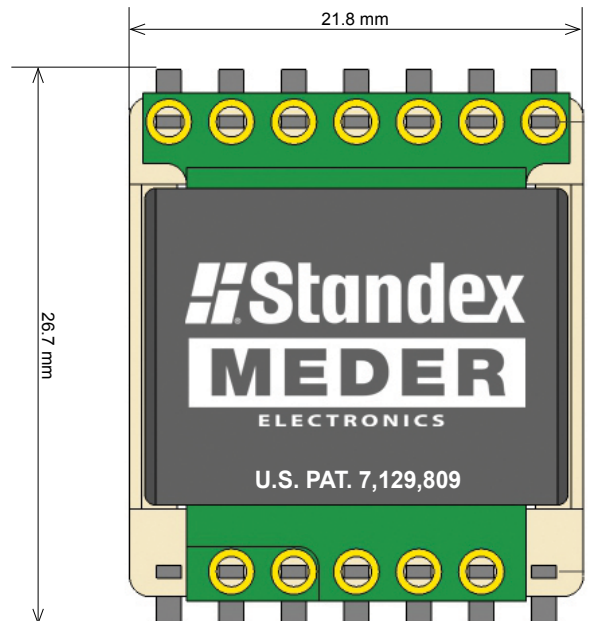
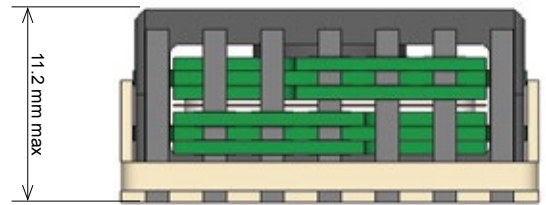
SURFACE MOUNT DESIGN



PCB Pad Layout
All Pad dimensions tolerance +/- 0.1



- Notes**
1. Dimensions are in mm
 2. Drawing not to scale
 3. Tolerance +/- 2% unless noted
 4. Header: LCP, natural color
 5. Pins: Copper
 6. Pin Finish: Tin (Sn) over Nickel (Ni)



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SIZE P075

Power Range 100W-500W



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DESIGN EXAMPLES

Design Example Part #	Input Voltage VDC	Pri. Np Turns (Pins)	Sec. Ns1 VDC	I Out. Max (2) ADC	Sec. Ns1 Turns (Pins)	Sec. Ns2 VDC	Sec. Ns2 Turns	Height mm (in) (1) Typ.
1235-1	36 - 75	6	3.3	30 ²	1	15	5	10.2 (0.400")
1235-2	36 - 75	6	5	26 ²	2	15	6	10.2 (0.400")
1235-3	36 - 75	6	12	10 ²	4	15	5	10.2 (0.400")
1235-4	36 - 75	6	15	7.8 ²	5	15	5	10.2 (0.400")

Notes: Full electrical, thermal, and efficiency calculations available upon request 1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements. 2) Estimated value for normal conditions. Current rating can be up to 30% higher for through hole applications.

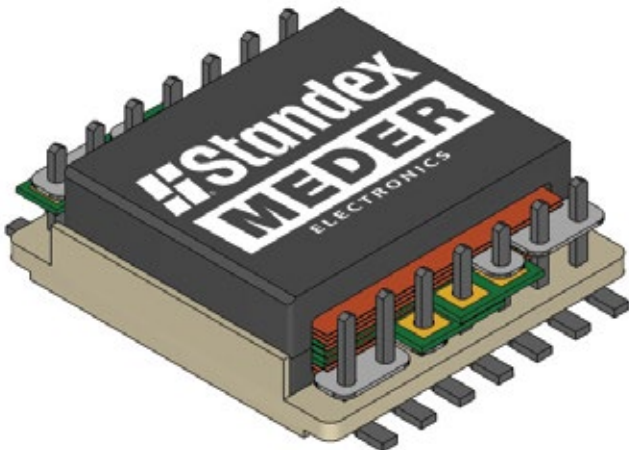
Highlights

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- Great co-planarity of terminals due to patented header offering repeatable height
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages

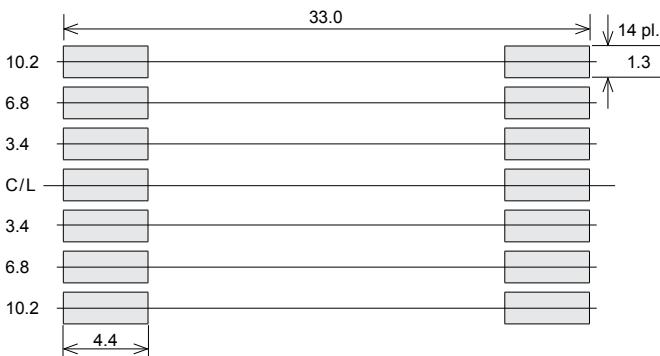
Customize beyond these examples!

Rated power 100W-500W / Frequency range 150-300kHz
 Surface mount (SMD) or through hole (TH)
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull, Flyback
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

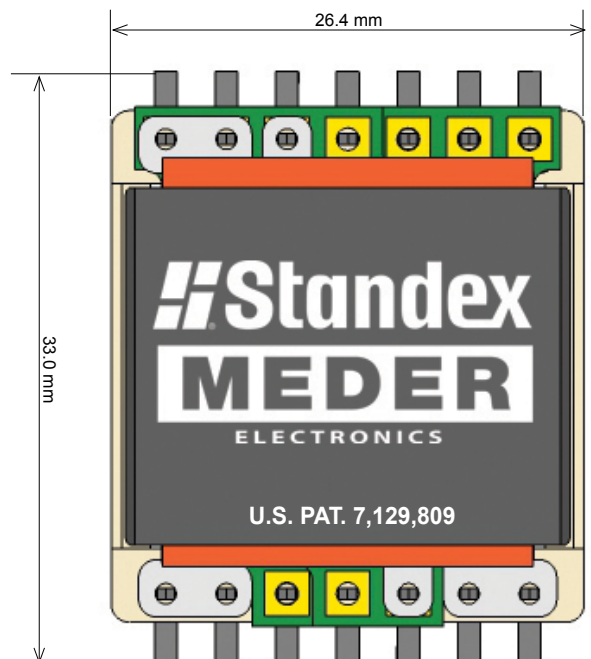
SURFACE MOUNT DESIGN



PCB Pad Layout
All Pad dimensions tolerance +/- 0.1



- Notes**
1. Dimensions are in mm
 2. Drawing not to scale
 3. Tolerance +/- 2% unless noted
 4. Header: LCP, natural color
 5. Pins: Copper
 6. Pin Finish: Tin (Sn) over Nickel (Ni)



These models are for reference only and may NOT exactly match the design examples provided.



SIZE P110

Power Range 150W-700W

“Application Engineering Experts”

CUSTOM IS STANDARD

:: DESIGN EXAMPLES ::

Design Example Part #	Input Voltage VDC	Pri. Np Turns (Pins)	Sec. Ns1 VDC	I Out. Max (2) ADC	Sec. Ns1 Turns (Pins)	Sec. Ns2 VDC	Sec. Ns2 Turns	Height mm (in) (1) Typ.
1240-1	190-350	16	2.2	15 ²	3	-	-	12.7(0.500")
1240-2	190-350	24	2.2	27 ²	2	24	4	12.7(0.500")
1240-3	190-350	28	3.3	46 ²	1	15	3	12.7(0.500")
1240-4	190-350	16	3.3	10 ²	5	-	-	12.7(0.500")
1240-5	190-350	20	5	27 ²	2	15	2	12.7(0.500")

Notes: Full electrical, thermal, and efficiency calculations available upon request 1) Length (L) may vary depending on terminals. Height (H) may vary depending on input / output requirements. 2) Estimated value for normal conditions. Current rating can be up to 30% higher for through hole applications.

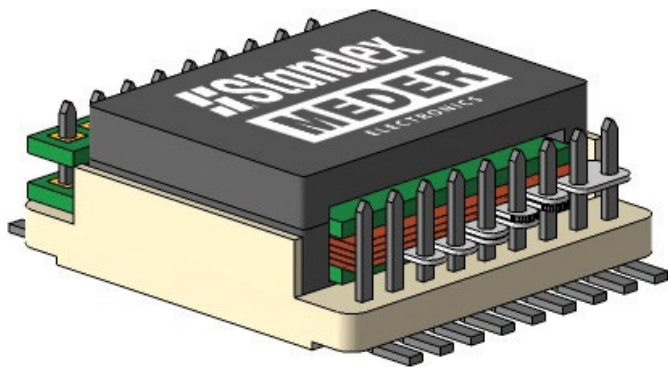
Highlights

- Patented (U.S. PAT. 7,129,809) design with superior thermal management
- High efficiency (low losses), ultra compact, low-profile
- Great co-planarity of terminals due to patented header offering repeatable height
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages

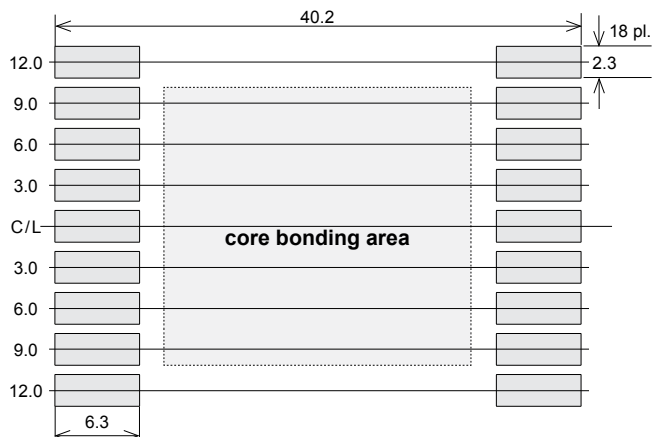
Customize beyond these examples!

Rated power 150W-700W / Frequency range 175-300kHz
 Surface mount (SMD) or through hole (TH)
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull, Flyback
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

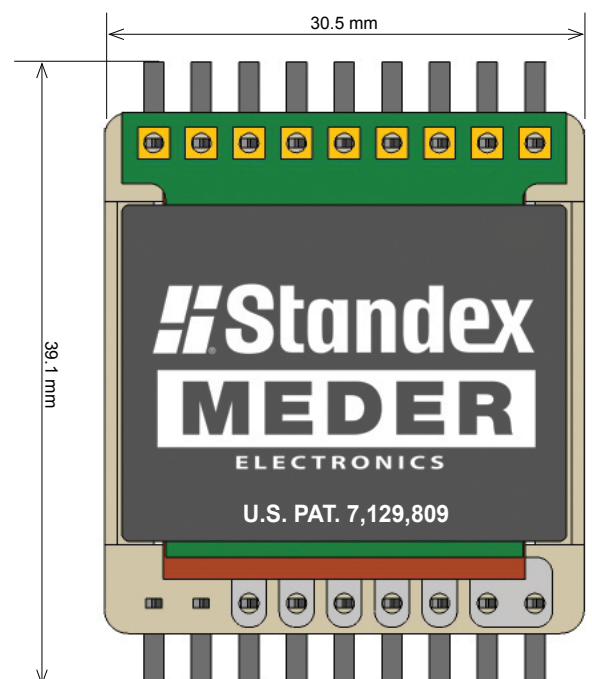
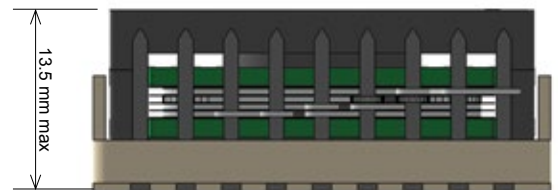
SURFACE MOUNT DESIGN



PCB Pad Layout
All Pad dimensions tolerance +/- 0.1



- Notes**
1. Dimensions are in mm
 2. Drawing not to scale
 3. Tolerance +/- 2% unless noted
 4. Header: LCP, natural color
 5. Pins: Copper
 6. Pin Finish: Tin (Sn) over Nickel (Ni)



These models are for reference only and may NOT exactly match the design examples provided.

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SIZE P135

Power Range 300W-1.2kW



“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (12VDC@50A)	600W	Pri-sec turns ratio	20:1+1
Operating frequency	200 kHz	Dielectric strength	
Input voltage range	370-410 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge ZVS	Isolation sec-core	500 VDC
Max volt-µsec product	1216	Ambient temperature	60 °C
Duty cycle	66 %	Total losses	6.0 W
Primary current	2.9 Arms	Hot spot temperature	108 °C
Secondary current	35.4 Arms	Approx. Weight	100 grams

Notes: Assumes transformer is cooled by airflow only @ 200°C LFM

:: DESIGN EXAMPLE ::

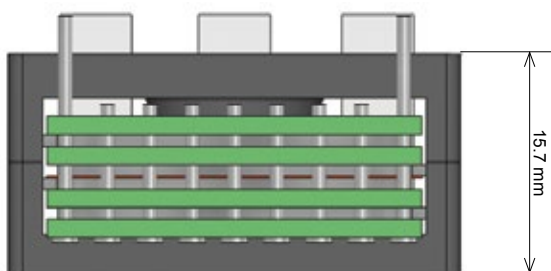
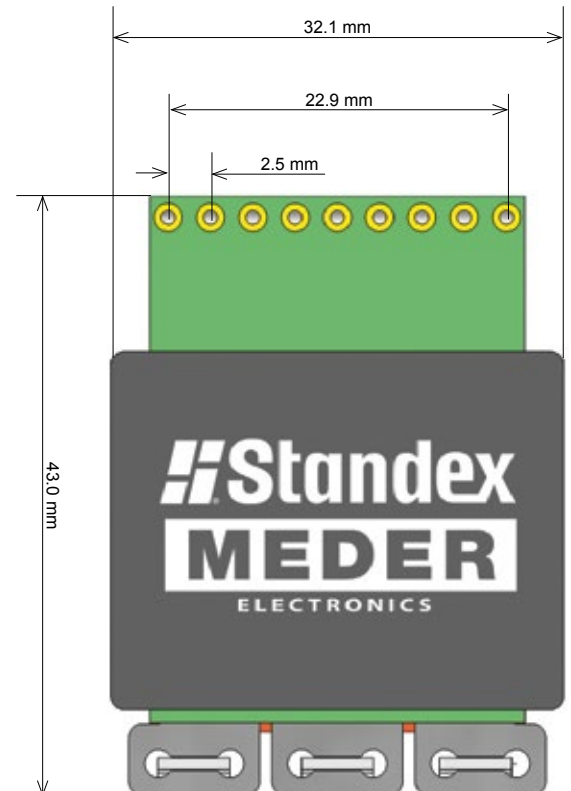
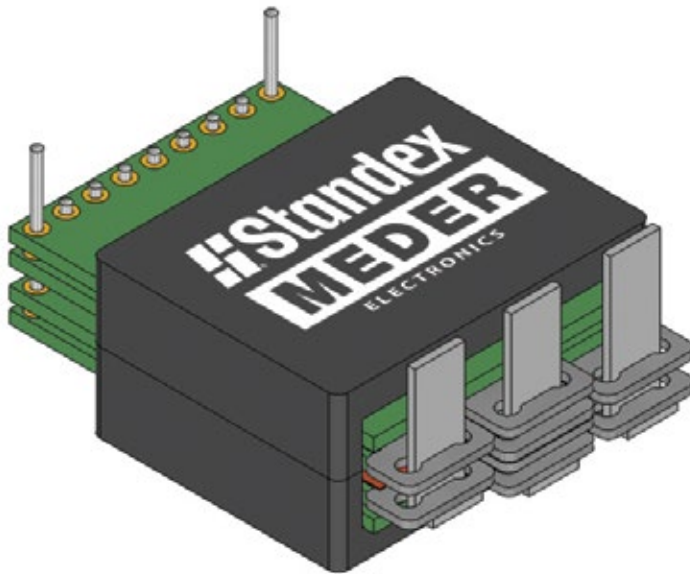
Highlights

- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 300W-1.2kW / Frequency range 100-250kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



These models are for reference only and may NOT exactly match the design examples provided.

SIZE P135

Power Range 300W-1.2kW



“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (12VDC@100A)	1.2kW	Pri-sec turns ratio	24:1+1
Operating frequency	120 kHz	Dielectric strength	
Input voltage range	380-410 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-µsec product	2564	Ambient temperature	600 °C
Duty cycle	82 %	Total losses	11 W
Primary current	4.1 Arms	Hot spot temperature	98 °C
Secondary current	70.7 Arms	Approx. Weight	130 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

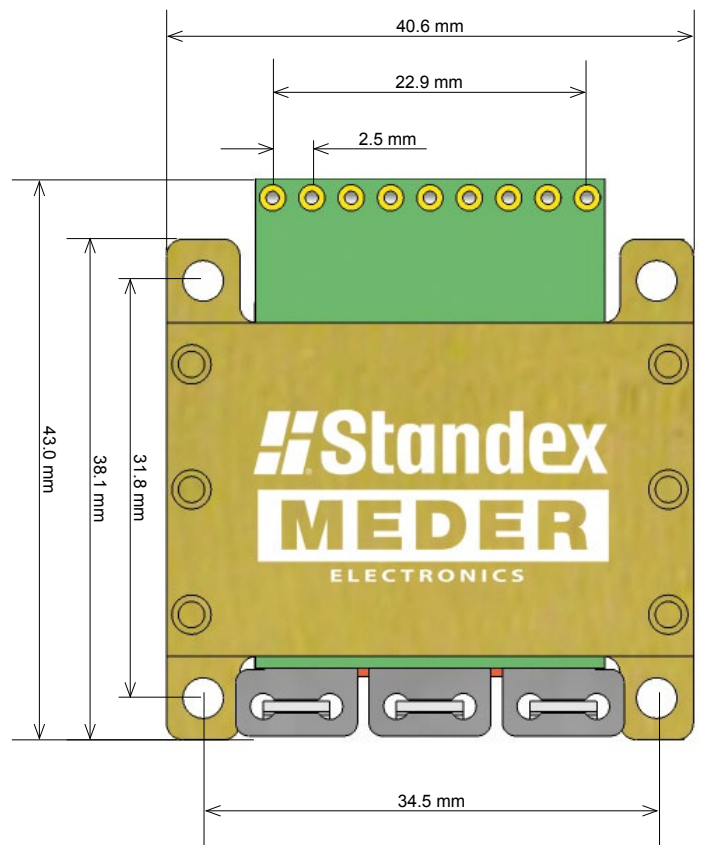
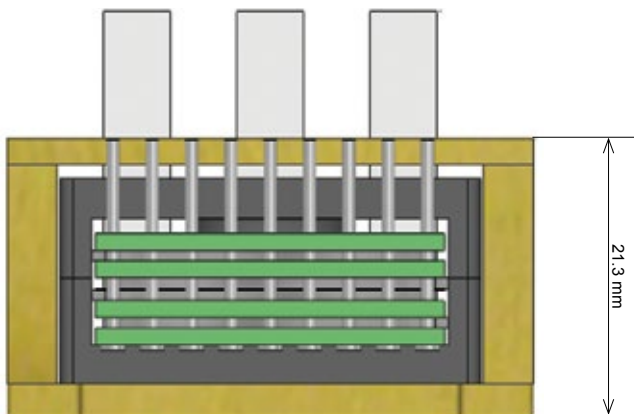
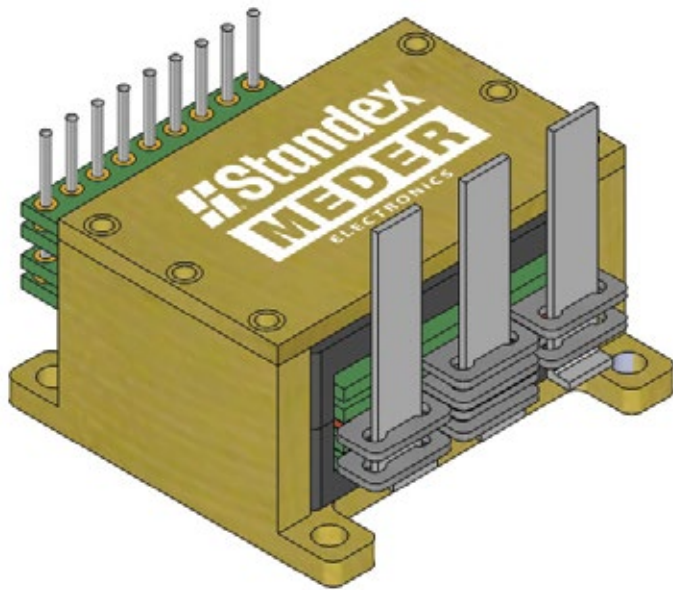
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 300W-1.2kW / Frequency range 100-250kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. SMD=20A, TH = +30%
 Isolation voltage pri-sec/pri-core 500-5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



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SIZE P220

Power Range 1kW-3kW



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CUSTOM IS STANDARD

Total output power (24VDC@40A)	1.0kW	Pri-sec turns ratio	12:2+2
Operating frequency	140 kHz	Dielectric strength	
Input voltage range	180-325 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Forward	Isolation sec-core	500 VDC
Max volt-µsec product	540	Ambient temperature	50 °C
Duty cycle	84 %	Total losses	12 W
Primary current	9.7 Arms	Hot spot temperature	116 °C
Secondary current	26 Arms	Approx. Weight	220 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

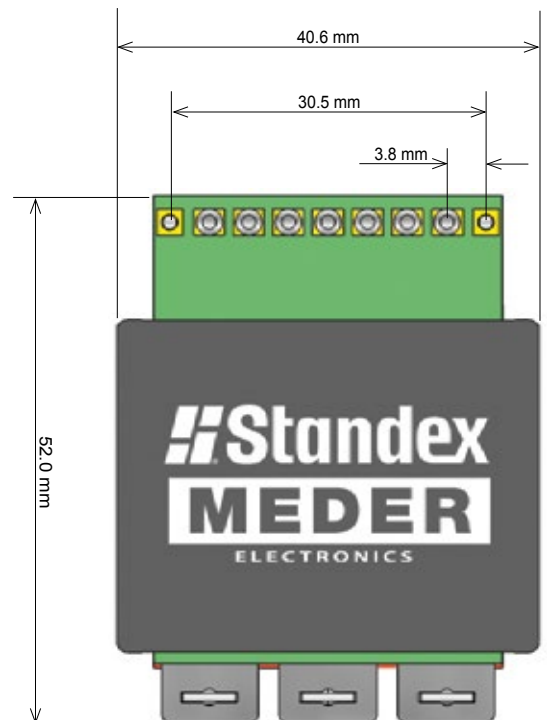
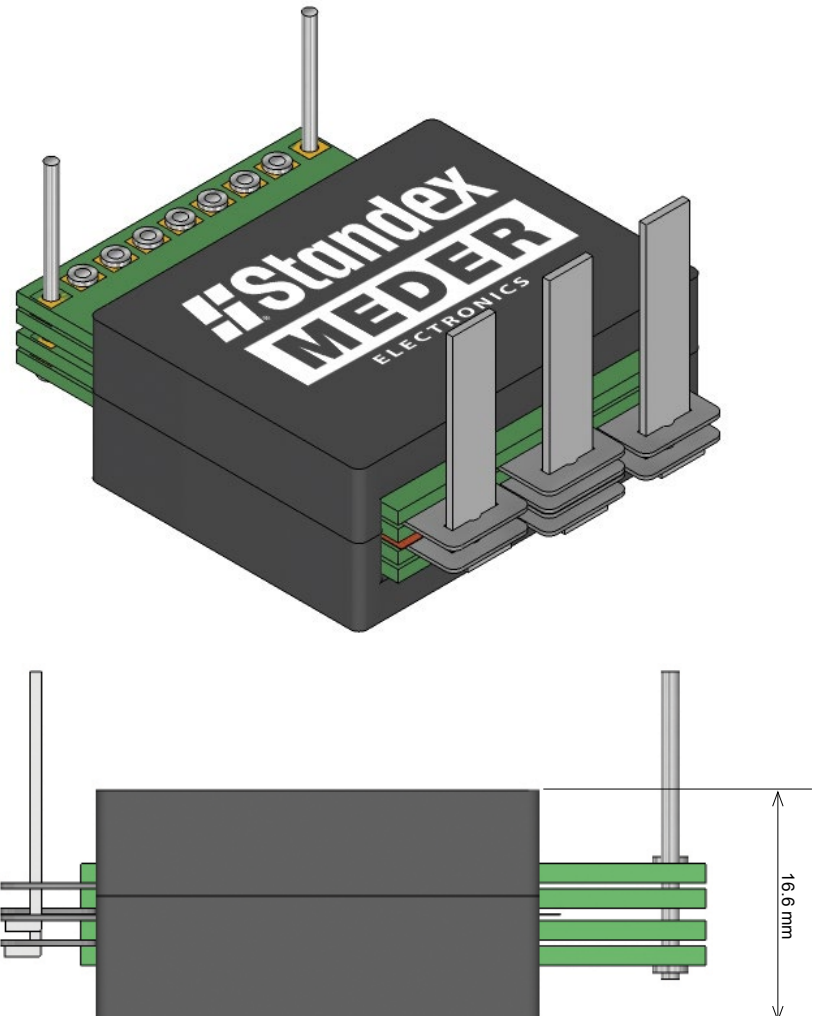
Highlights

- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 1KW-3kW / Frequency range 60-200kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push Pull
 Current rating max. 250A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



These models are for reference only and may NOT exactly match the design examples provided.



SIZE P220

Power Range 1kW-3kW

“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (28VDC@71A)	2.0kW	Pri-sec turns ratio	10:1+1
Operating frequency	200 kHz	Dielectric strength	
Input voltage range	180-300 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Fwd Bridge	Isolation sec-core	500 VDC
Max volt-μsec product	716	Ambient temperature	60 °C
Duty cycle	80 %	Total losses	21.7 W
Primary current	15.1 Arms	Hot spot temperature	112 °C
Secondary current	50.2 Arms	Approx. Weight	250 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

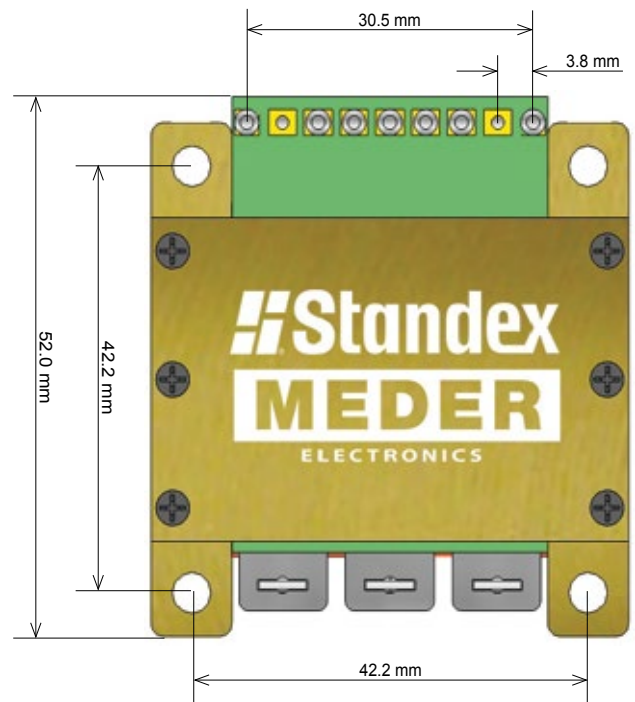
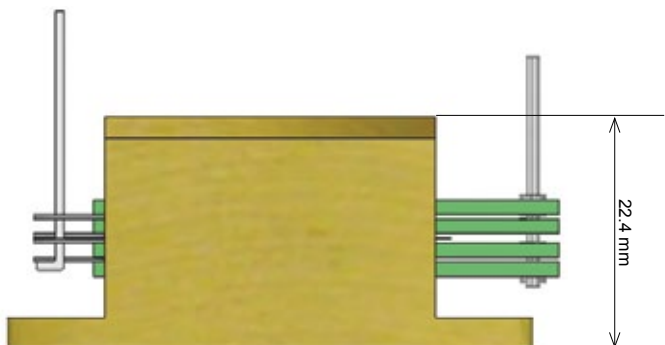
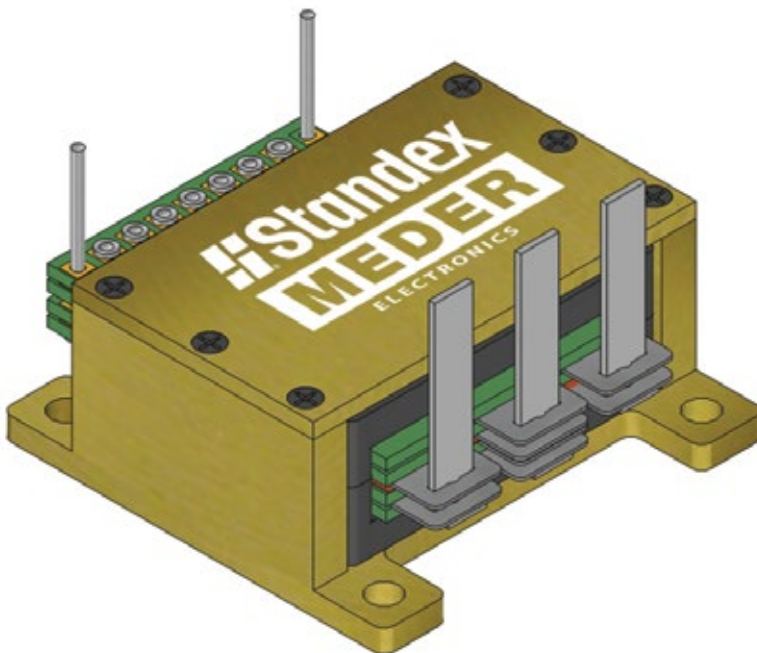
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals

Customize beyond these examples!

Rated power 1KW-3kW / Frequency range 60-200kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push Pull
 Current rating max. 250A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

THROUGH HOLE / J-HOOK MOUNT



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SIZE P350

Power Range 2kW-6kW



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CUSTOM IS STANDARD

Total output power (28VDC@130A)	3.6kW	Secondary current	92 Arms
Operating frequency	200 kHz	Pri-sec turns ratio	14:1+1
Input voltage range	500-800 VDC	Dielectric strength	
Topology	Full Bridge	Pri-sec/pri-core	3,000 VDC
	LLC Resonant	Isolation sec-core	1,000 VDC
Max volt-µsec product	2017	Ambient temperature	85 °C
Duty cycle	81 %	Total losses	23.4 W
Primary current	9.3 Arms	Hot spot temperature	120 °C
		Approx. Weight	270 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

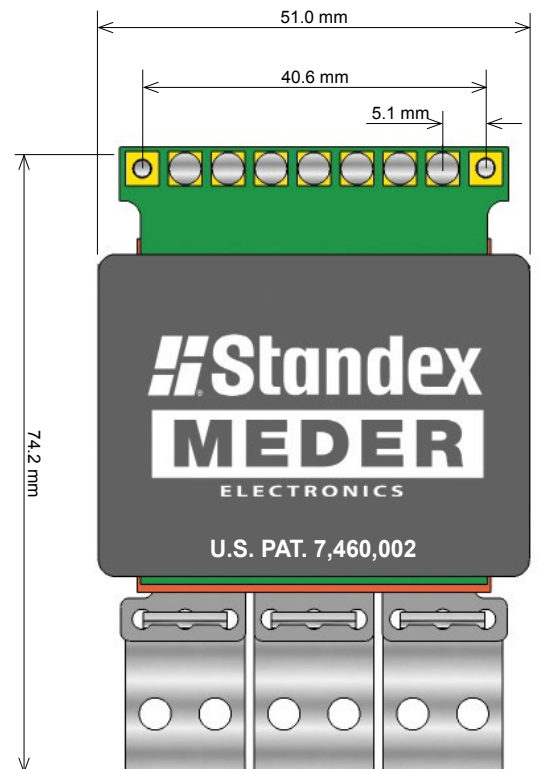
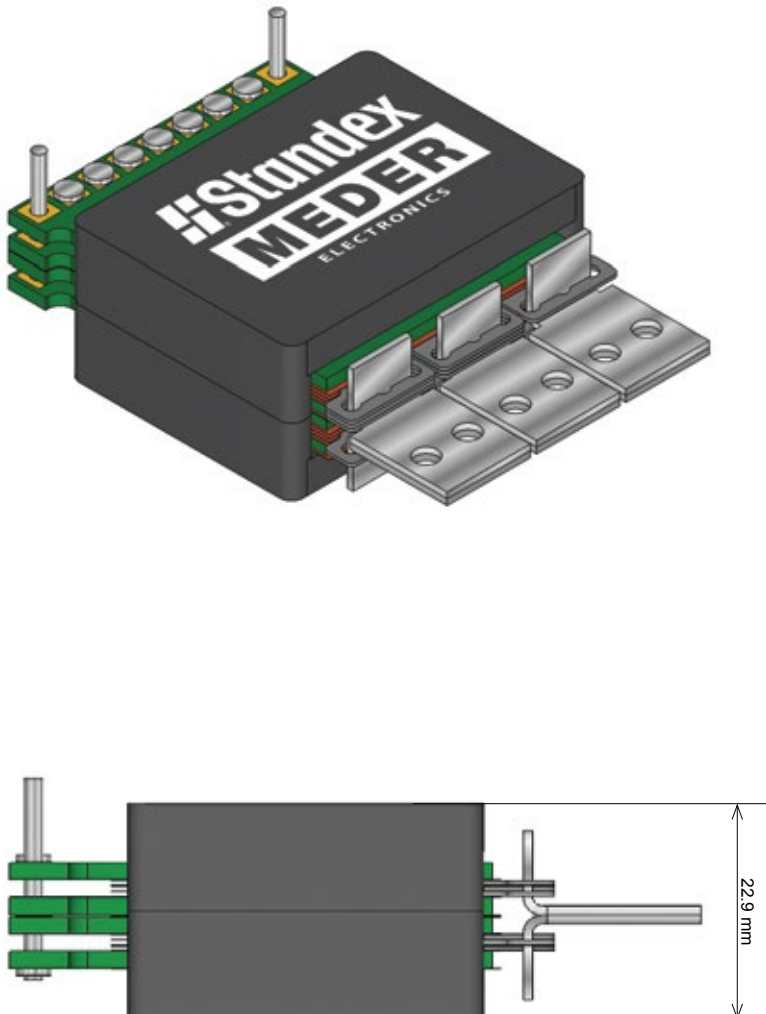
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 2kW-6kW / Frequency range 40-150kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 300A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.



SIZE P350

Power Range 2kW-6kW

“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (15VDC@300A)	5.0kW	Pri-sec turns ratio	10:1+1
Operating frequency	50 kHz	Dielectric strength	
Input voltage range	220-320 VDC	Pri-sec/pri-core	3,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-µsec product	3085	Ambient temperature	60 °C
Duty cycle	71 %	Total losses	40.2 W
Primary current	29.7 Arms	Hot spot temperature	115°C
Secondary current	196.3 Arms	Approx. Weight	350 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

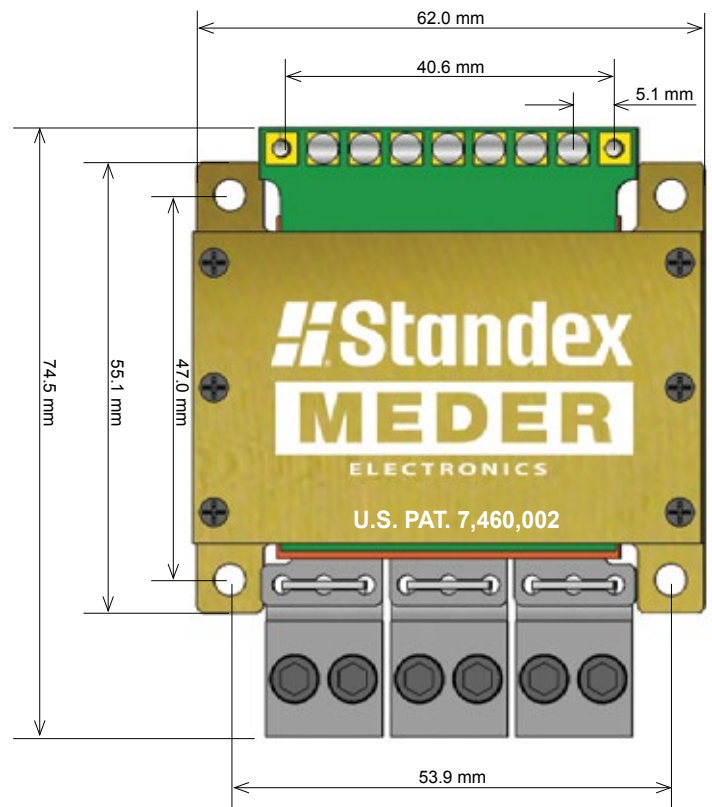
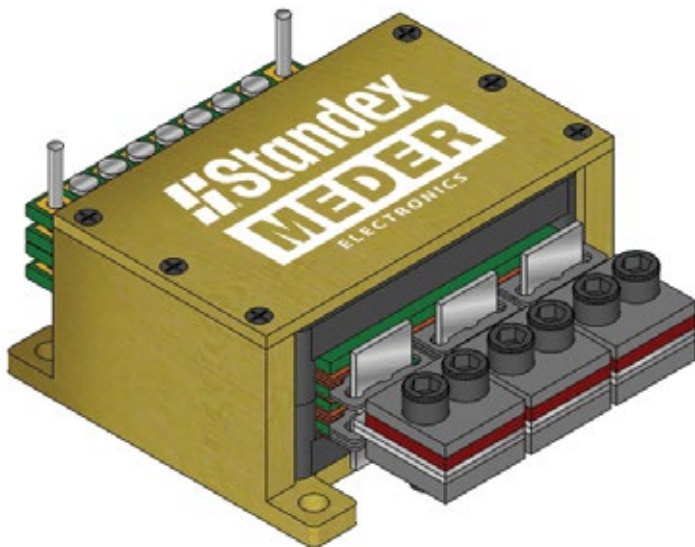
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 2kW-6kW / Frequency range 40-150kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 300A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.

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SIZE P560

Power Range 3kW-10kW



“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (31VDC@100A)	3.1kW	Pri-sec turns ratio	16:2+2
Operating frequency	50 kHz	Dielectric strength	
Input voltage range	405-495 VDC	Pri-sec/pri-core	3,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-µsec product	5081	Ambient temperature	60 °C
Duty cycle	63 %	Total losses	15.6 W
Primary current	10.7 Arms	Hot spot temperature	114 °C
Secondary current	56.1 Arms	Approx. Weight	480 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

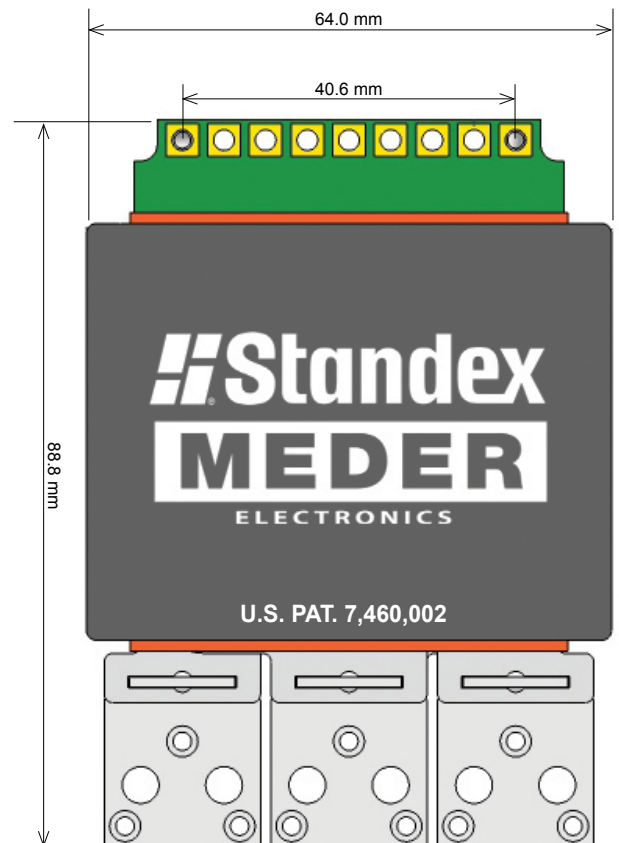
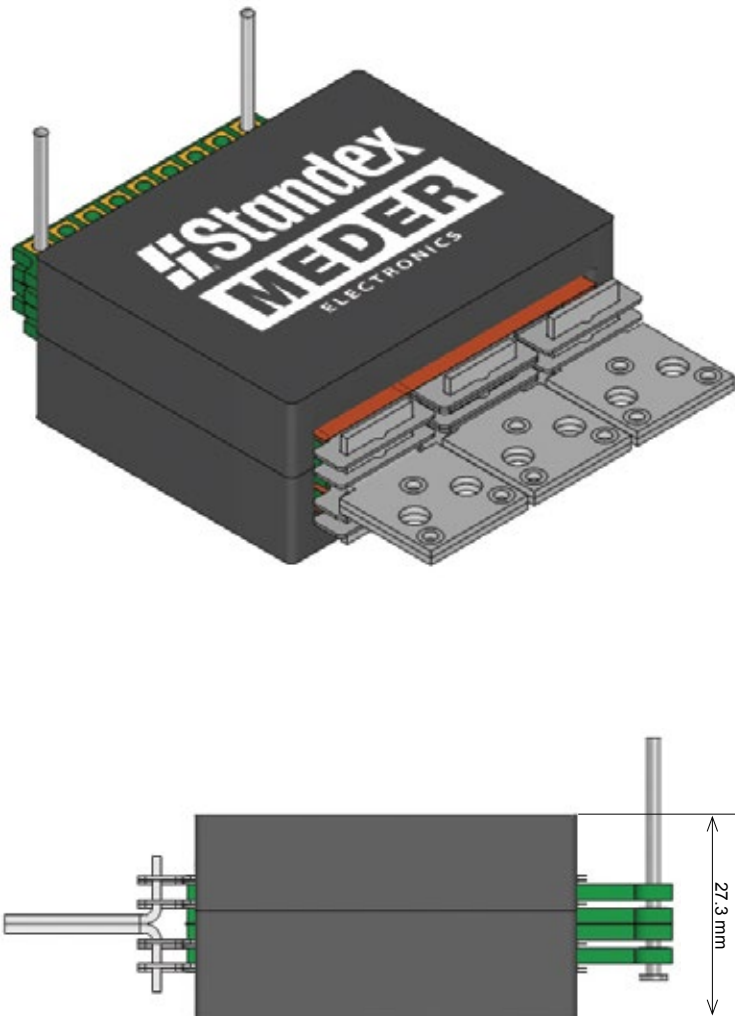
Highlights

- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 3kW-10kW / Frequency range 40-125kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 400A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.



SIZE P560

Power Range 3kW-10kW

“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (28VDC@300A)	8.4kW	Pri-sec turns ratio	10:1+1
Operating frequency	50 kHz	Dielectric strength	
Input voltage range	380-410 VDC	Pri-sec/pri-core	3,000 VDC
Topology	Full Bridge	Isolation sec-core	500 VDC
Max volt-μsec product	5785	Ambient temperature	60 °C
Duty cycle	77 %	Total losses	40 W
Primary current	28 Arms	Hot spot temperature	115 °C
Secondary current	186 Arms	Approx. Weight	700 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max.

:: DESIGN EXAMPLE ::

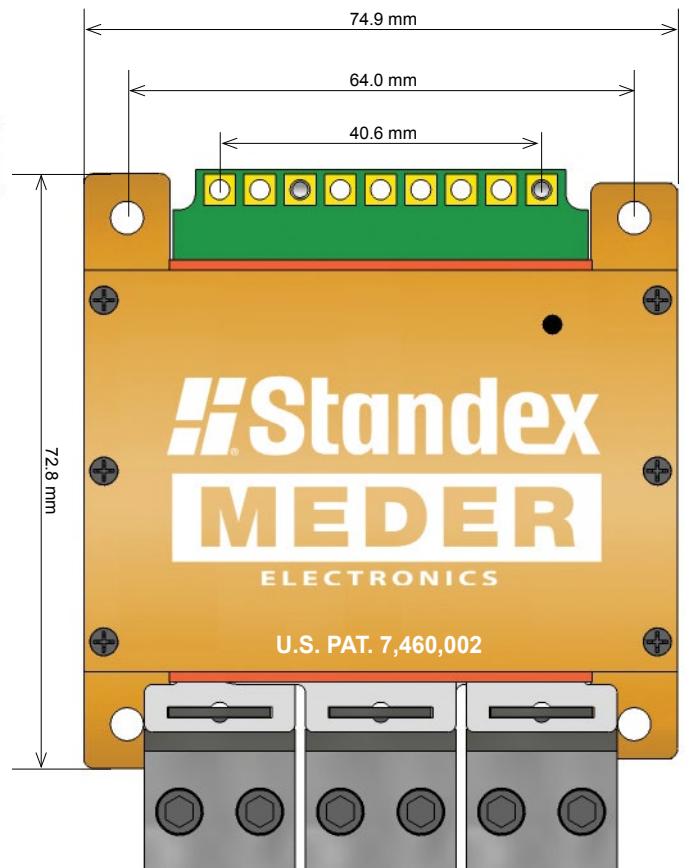
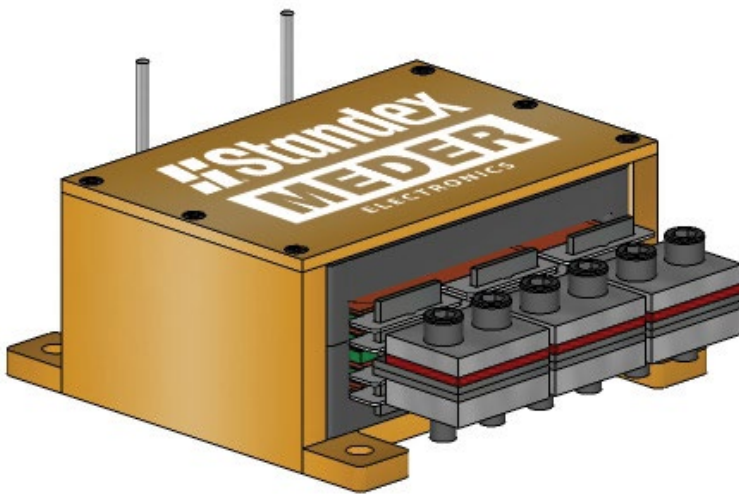
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 3kW-10kW / Frequency range 40-125kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 400A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.

SIZE P900

Power Range 10kW-20kW



“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (40VDC@250A)	10kW	Pri-sec turns ratio	12:2+2
Operating frequency	30 kHz	Dielectric strength	
Input voltage range	252-308 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge ZVS	Isolation sec-core	1,000 VDC
Max volt-µsec product	8236	Ambient temperature	60 °C
Duty cycle	98 %	Total losses	90 W
Primary current	46 Arms	Hot spot temperature	105 °C
Secondary current	177 Arms	Approx. Weight	550 grams

Notes: Assumes transformer is cooled by a heatsink @ 75°C max. and forced airflow

:: DESIGN EXAMPLE ::

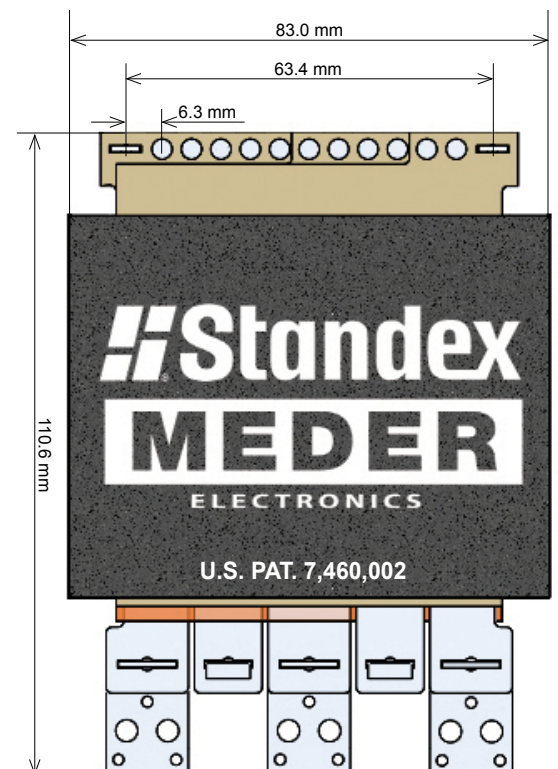
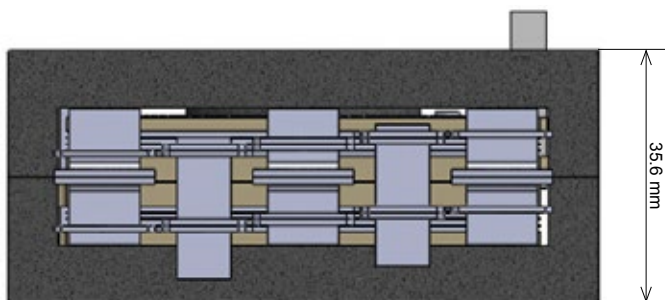
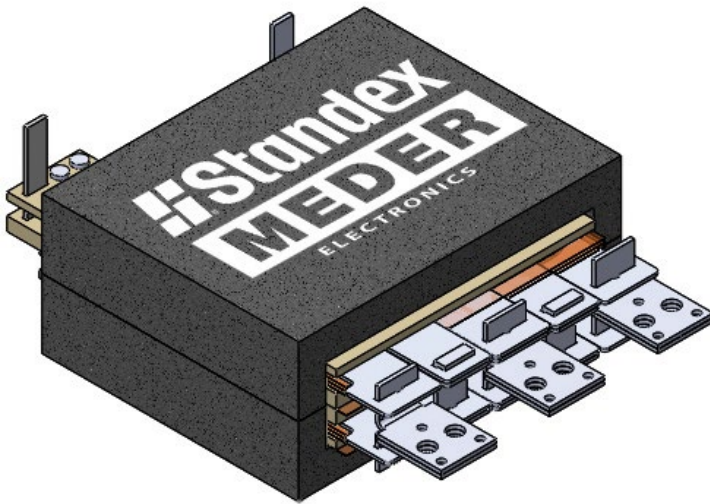
Highlights

- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 10KW-20kW / Frequency range 40-125kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 500A
 Isolation voltage pri-sec/pri-core 500- 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1 turns 1- 4 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.



SIZE P900

Power Range 10kW-20kW

“Application Engineering Experts”

CUSTOM IS STANDARD

Total output power (45VDC@330A)	15.0kW	Pri-sec turns ratio	8:1+1
Operating frequency	70 - 100 kHz	Dielectric strength	
Input voltage range	548-743 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full Bridge ZVS	Isolation sec-core	1,000 VDC
Max volt-µsec product	3884	Ambient temperature	75 °C
Duty cycle	96 %	Total losses	95 W
Primary current	32 Arms	Hot spot temperature	122 °C
Secondary current	330 A	Approx. Weight	950 grams

Notes: Assumes transformer is cooled by a coldplate @ 75°C max. and forced airflow

:: DESIGN EXAMPLE ::

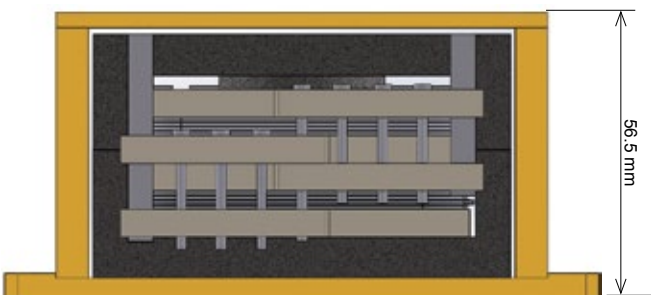
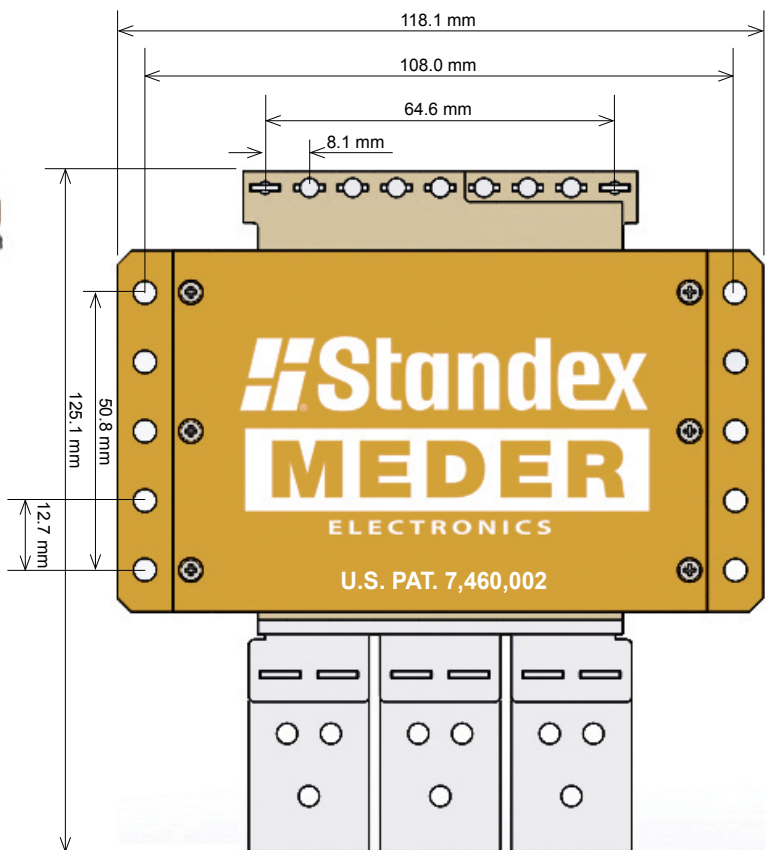
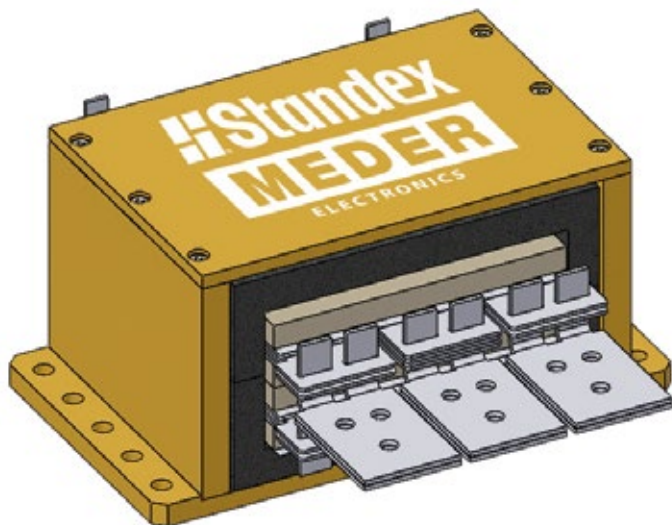
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 10KW-20kW / Frequency range 40-125kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 500A
 Isolation voltage pri-sec 5,000VDC
 Isolation voltage pri-core 500-2,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary N_{s1} turns 1- 4 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.

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SIZE P1100

Power Range 10kW-30kW



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CUSTOM IS STANDARD

Total output power (400VDC@50A)	20.0kW	Pri-sec turns ratio	8:8+8
Operating frequency	40 kHz	Dielectric strength	
Input voltage range	246-286 VDC	Pri-sec/pri-core	4,000 VDC
Topology	Full-Bridge	Isolation sec-core	1,000 VDC
Max volt-µsec product	3884	Ambient temperature	60 °C
Duty cycle	84 %	Total losses	120 W
Secondary current	50 Arms	Hot spot temperature	110 °C
		Approx. Weight	3 lbs

Notes: Assumes transformer is cooled by a coldplate @ 60°C max. and forced airflow

:: DESIGN EXAMPLE ::

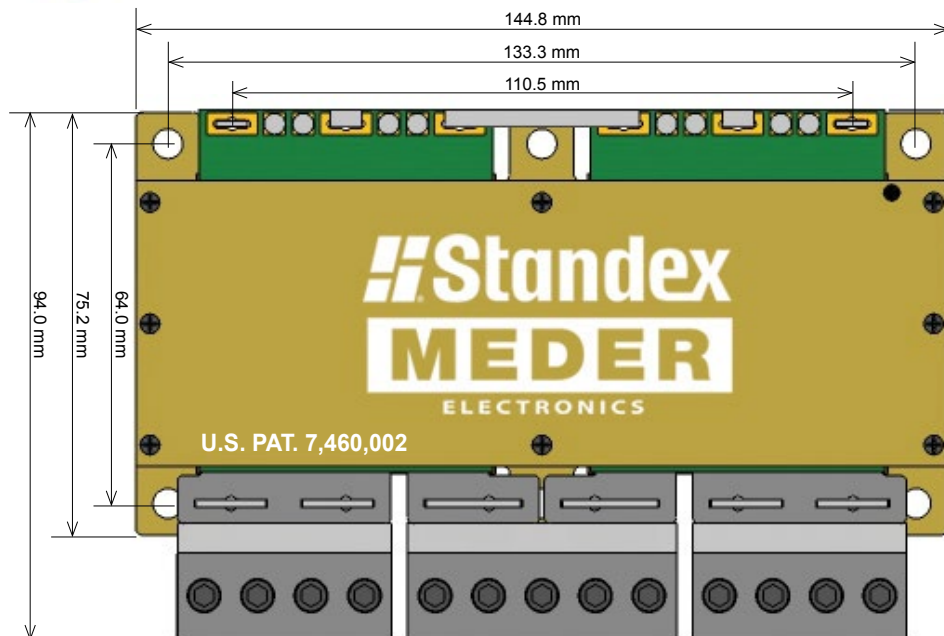
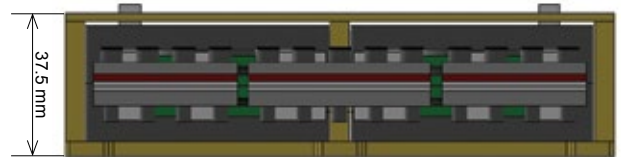
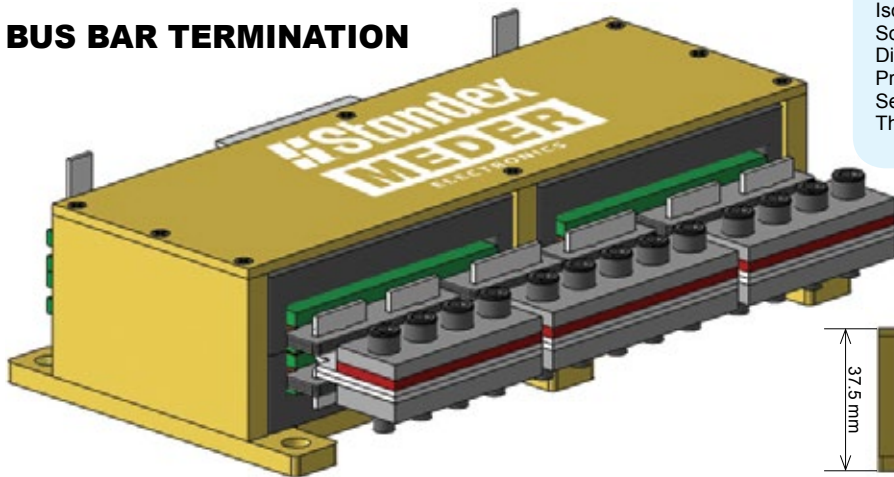
Highlights

- Anodized aluminum heatsinks offering high thermal conductivity and removing heat from windings
- Patented (**U.S. Patent 7,460,002**) terminals offer mechanical strength and very low resistance
- High efficiency (low losses), ultra compact, low-profile
- Excellent solderability (Pb-free or Pb/Sn Solder)
- Standard sizes / customer configurations
- Quick custom turn-around often without start-up or tooling costs
- Inductors available for design in all packages
- Large secondary pins reduce temperature rise on terminals
- Various terminal options available (SMD, Thru-hole, screw terminals)

Customize beyond these examples!

Rated power 10kW-30kW / Frequency range 20-125kHz
 Topology - Full Bridge, Half Bridge, Full Bridge ZVS, Push-Pull
 Current rating max. 600A
 Isolation voltage pri-sec/pri-core 5,000VDC
 Soft switching, single or multiple outputs
 Different switching frequencies, input/output voltages
 Primary turns - other number (no fractions)
 Secondary Ns1, Ns2 / Ns3 turns 1- 8 (no fractions)
 Thermal solutions heat sinks, etc.

BUS BAR TERMINATION



These models are for reference only and may NOT exactly match the design examples provided.



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DESIGN EXAMPLES

Standard Part Number "R" = Optional Tape & Reel	Core Style	Height (mm)	Nom. (A)	L (μH)	DCR Nom. (mΩ)	Isat (A) typ 10% Drop	20% Drop
PQ2007-0R4-70-G or T-R	PQ20	7	70	0.4	0.7	71	83
PQ2006-1R0-30-G or T-R	PQ20	6	30	1.0	1.0	35	39
PQ2007-2R2-25-G or T-R	PQ20	7	25	2.2	3.5	29	32
PQ2007-4R4-15-G or T-R	PQ20	7	15	4.4	3.6	16	18
PQ2613-1R0-80-G or T-R	PQ26	13	80	1.0	1.2	110	120
PQ3213-0R9-70-G or T-R	PQ32	13	70	0.9	1.0	100	110
PQ3218-3R3-70-G or T-R	PQ32	18	70	3.3	1.1	74	80
PQ3218-6R0-50-G or T-R	PQ32	18	50	6.0	1.5	51	57

Notes: All Electrical Values at 25°C | Pri: Sec'y: Core Isolation 300 Vrms | Maximum Non-Operating Temperatures : -55°C to +180°C | Maximum Operating Rated Temperatures: -30°C to +125°C | Inductance measured 10kHz, 1.0V



Available in Tape & Reel Packaging

PQ STYLE | Planar Inductors

0.4-6.0μH, 80A max

Highlights

- Fixed power inductor w/ferrite core used in switching power supplies, DC/DC converters, FPGA and low/high profile current, high current POL converters, feedback control, overload sensing, load drop and shut down detection
- Applications include but are not limited to: switching power supplies, DC/DC converters in distributed power systems, FPGA and low-profile high-current, high current POL converters, feedback control, overload sensing, load drop and shut down detection

Example PQ2007 - 0R4 - 70 - G - R



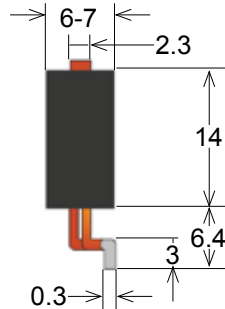
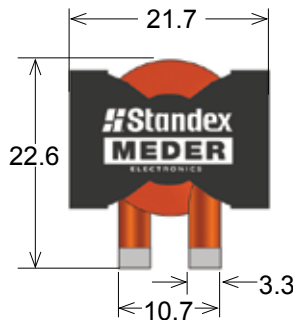
Customize beyond these examples!

- Core style and size
- Typical height in mm
- Min. inductance in "μH", "R" = decimal point
- Typical Amp rating
- Terminal style - "G" = SMT, "T" = Through hole tabs
- Optional packaging "R" = Tape & Reel

PQ20

(SMT/THT)

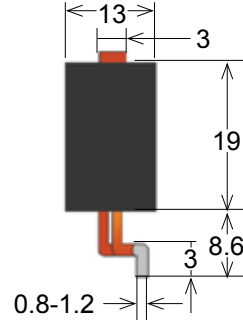
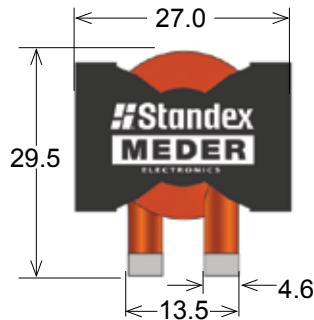
Inductance: 0.4 - 4.4 μH
 Current Range Typ: 0.7 - 2.5 A
 Height Max.: 6.0 - 10.0 mm
 Footprint Max.: 22.6 x 21.7 mm



PQ26

(SMT/THT)

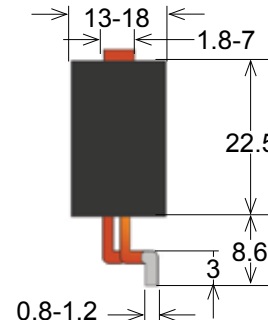
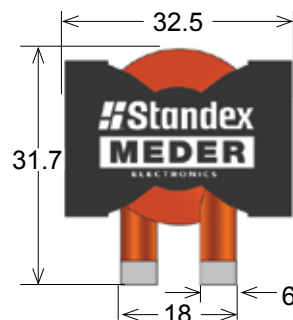
Inductance: 1.0 μH
 Current Range Typ: 42 A
 Height Max.: 13.0 mm
 Footprint Max.: 29.5 x 27.0 mm



PQ32

(SMT/THT)

Inductance: 0.9 - 6.0 μH
 Current Range Typ: 45 - 60 A
 Height Max.: 11.0 - 18.0 mm
 Footprint Max.: 31.7 x 32.5 mm



Planar Inductor Request Form

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Planar Inductor Specifications

* required fields

Application	<input type="text"/>								
*Operating Frequency	<input type="text"/>	kHz							
Min. Ambient Temperature	<input type="text"/>	°C	Max. Ambient Temperature	<input type="text"/>	°C				
Heatsink Temperature	<input type="text"/>	°C	Airflow	<input type="text"/>	CFM				
Dimensions (if needed)	L	<input type="text"/>	mm	W	<input type="text"/>	mm	H	<input type="text"/>	mm
Target Price	<input type="text"/>	USD							
*Winding 1	<input type="text"/>	µH	<input type="text"/>	A					
Winding 2	<input type="text"/>	µH	<input type="text"/>	A					
Winding 3	<input type="text"/>	µH	<input type="text"/>	A					
Winding 4	<input type="text"/>	µH	<input type="text"/>	A					
Winding 5	<input type="text"/>	µH	<input type="text"/>	A					
Max ACpp Ripple Current	<input type="text"/>	A							
Termination Style	<input type="text"/>								
Isolation Requirements	<input type="text"/>	Vdc	<input type="text"/>	Vrms					
Clearance/Creepage Requirements (if needed)	<input type="text"/>	mm							

Planar Transformer Request Form

Fill out a design request today!

We meet each unique need, encompassing our global capabilities to partner, solve, and deliver *custom engineered solutions for tomorrow*. Complete the form below and our engineers and product specialists will review your request and respond with information targeting your application.

Planar Transformer Specifications

* required fields

Application	<input type="text"/>								
*Topology	<input type="text"/>								
*Total Output Power	<input type="text"/>	W							
*Min. Input Voltage	<input type="text"/>	Vdc	*Max. Input Voltage	<input type="text"/>	Vdc				
Min. Duty Cycle	<input type="text"/>	%	Min. Duty Cycle mm	<input type="text"/>	%				
Primary Center Tap	<input type="radio"/> Yes <input type="radio"/> No								
Secondary Center Tap	<input type="radio"/> Yes <input type="radio"/> No								
*Output 1	<input type="text"/>	Vdc (V)	<input type="text"/>	Idc (A)					
Output 2	<input type="text"/>	Vdc (V)	<input type="text"/>	Idc (A)					
Output 3	<input type="text"/>	Vdc (V)	<input type="text"/>	Idc (A)					
Output 4	<input type="text"/>	Vdc (V)	<input type="text"/>	Idc (A)					
Max ACpp Ripple Current	<input type="text"/>	Vdc	*Isolation Pri:Sec	<input type="text"/>	Vrms				
Ambient Temperature	<input type="text"/>	°C							
Heatsink Temperature	<input type="text"/>	°C	Airflow	<input type="text"/>	CFM				
Termination Style	<input type="text"/>								
Dimensions	L	<input type="text"/>	mm	W	<input type="text"/>	mm	H	<input type="text"/>	mm
*Turn Ratio Np/Nsec1	<input type="text"/>								
Turn Ratio Np/Nsec2	<input type="text"/>								
Turn Ratio Np/Nsec3	<input type="text"/>								
Turn Ratio Np/Nsec4	<input type="text"/>								

APPLICATIONS | Smart Home/City & Industrial

Standex-Meder Electronics dynamic capabilities allows us to strategically partner with customers, solve problems, and deliver reliable high-quality custom or standard solutions to a wide array of markets. Our diverse product families of reed based, magnetics, and fluid level sensing components can play a role in numerous applications such as appliances, security, lighting, HVAC, electronics, and more. Give us a hello@standexelectronics.com

HVAC and Plumbing

- Furnaces
- Air Conditioning Compressors
- Air Conditioning Condensers
- Dehumidifiers
- Humidifiers
- Solar Panels
- Gas Smart Meters
- Electric Smart Meters
- Instant Water Heaters
- Standard Water Heaters
- Water Meters
- Shower Pumps
- Pool and Spa Pumps
- Sprinkler System Controllers



Appliances

- Dishwasher
- Range
- Oven
- Microwave
- Coffeemaker
- Refrigerator
- Ice Maker
- Washers & Dryers

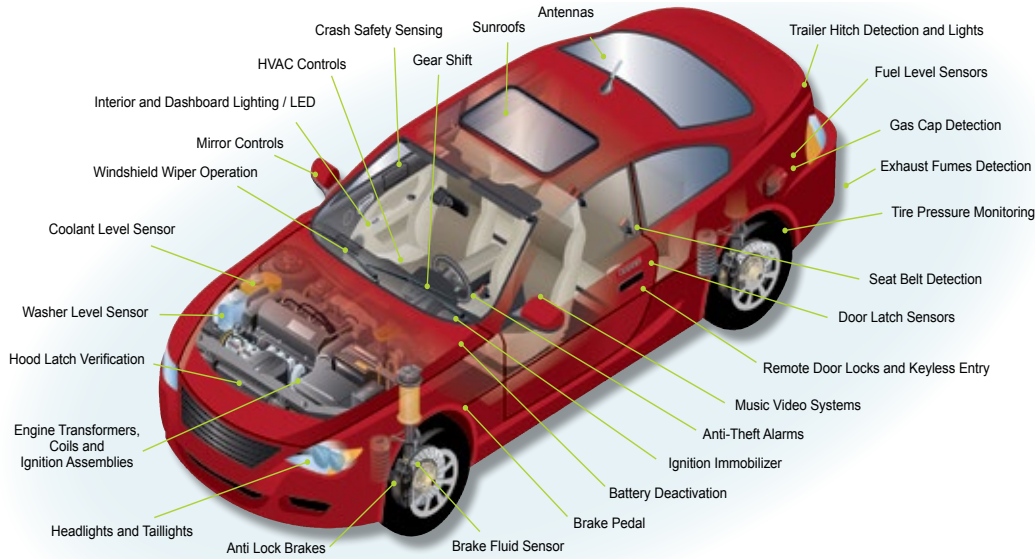
Other

- Designer Lighting
- Automatic Shades
- Tablet Keyboards
- Sound Sensors for Toys
- Guitar Amplifiers
- Microphones
- Organs
- Fitness Equipment
- Garage Door Openers
- Speakers



APPLICATIONS | Automotive Market & Transportation Industry

Standex-Meder Electronics dynamic capabilities and solutions provide reed switches, relays, and sensors, magnetics, and fluid level sensing products throughout the transportation industry. Think of anything that turns on/off, opens/closes, requires power transfer, lighting, starting, measuring, or detecting – and we can play a role within that application. From read outs on the dashboard to measurement of coolant, brake, windshield, water in fuel, tire pressure, and emissions – our components perform within vital processes within automobiles, heavy-duty trucks, recreational vehicles, airplanes, trains, motorcycles, eCars, eBikes, boats, and more.



Transportation

- Washer Level Sensor
- Coolant Level Sensor
- Keyless Entry
- Ignition Immobilizer
- Anti Lock Brakes
- Dashboard Lighting
- Marine Coils
- Ignition Assemblies
- Hood Latch Verification
- Dashboard Lighting

Security

- Security Cameras
- Door Sensors
- Window Sensors
- Security Gates
- Control Panels
- Smoke Detectors
- CO2 Detectors
- Sprinkler Systems
- Outside Lighting

Offices & Break Rooms

- Keyboards
- Inkjet printers
- Desk lamps
- Flashlights
- Cable / Broadband
- Time clocks
- Telephone Systems
- Cell phones
- Thermostats
- Dishwasher
- Microwave
- Coffeemaker
- Refrigerator
- Ice Maker



REED SWITCHES • REED RELAYS • REED SENSORS • PROXIMITY SENSORS
MAGNETS • FLUID SENSORS • OPTOCOUPERS • FLOATS • TRANSFORMERS
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