



Custom Engineered Solutions for Tomorrow

“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.
1235-1	36 - 75	6	3.3	30 <sup>2</sup>	1	15	5	10.2 (0.400")
1235-2	36 - 75	6	5	26 <sup>2</sup>	2	15	6	10.2 (0.400")
1235-3	36 - 75	6	12	10 <sup>2</sup>	4	15	5	10.2 (0.400")
1235-4	36 - 75	6	15	7.8 <sup>2</sup>	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.

**SIZE P075**

**Power Range 100W-500W**

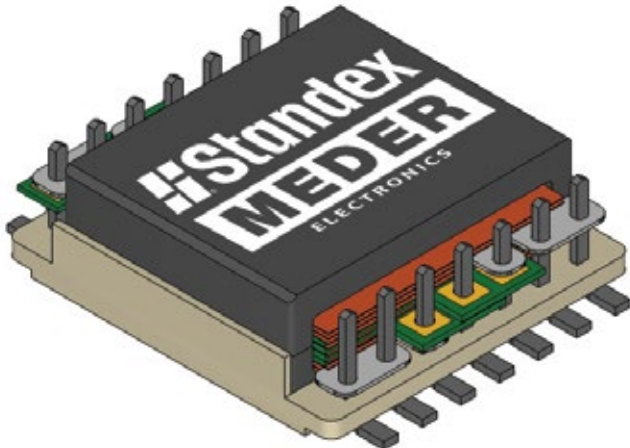
**Highlights**

- 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

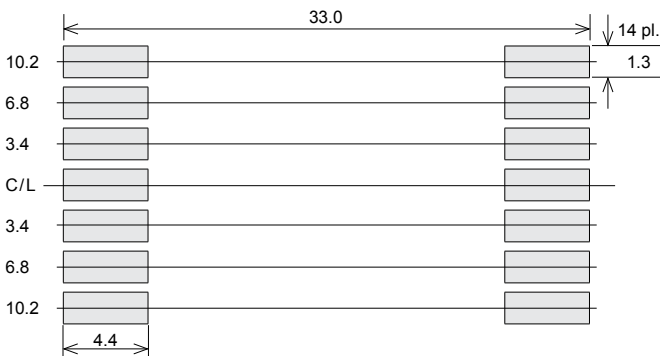
**Customize beyond these examples!**

Rated power 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.

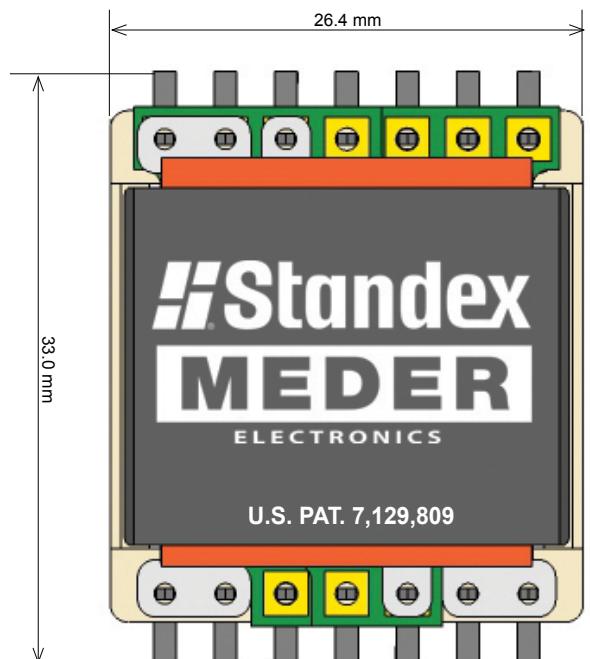
**SURFACE MOUNT DESIGN**



**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.