



SIZE P055

Power Range 50W-200W

“Application Engineering Experts”

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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

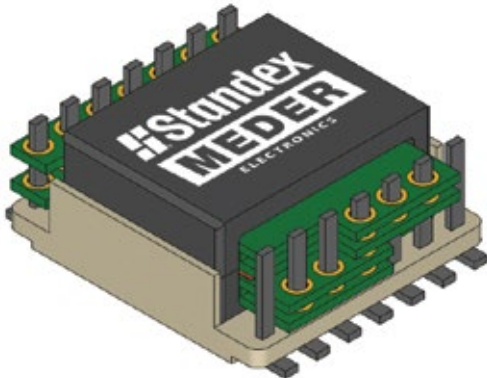
Highlights

- 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

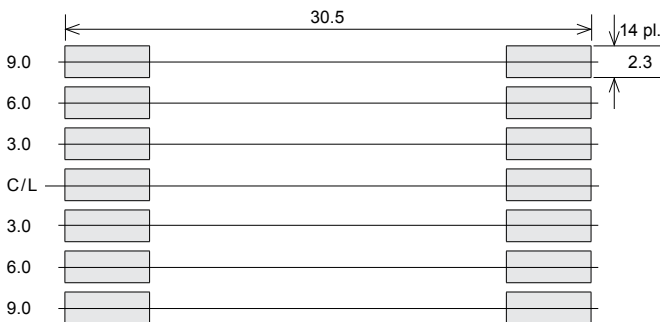
Customize beyond these examples!

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.

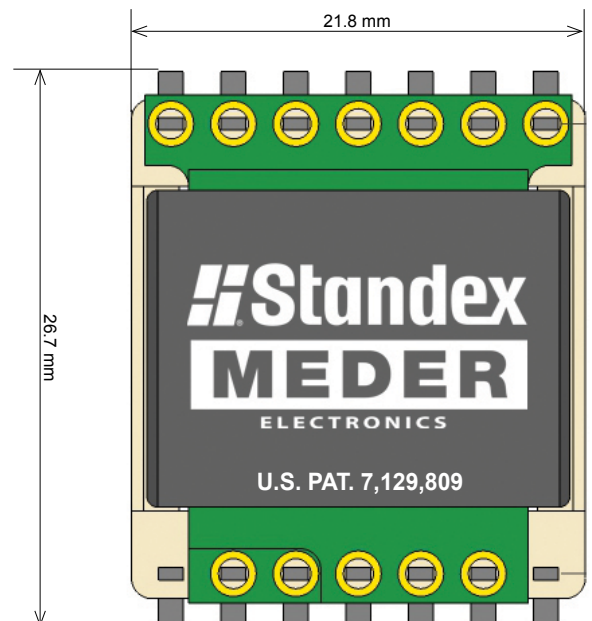
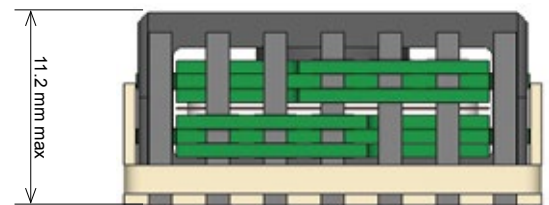
SURFACE MOUNT DESIGN



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)



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

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