Standex MEDER ELECTRONICS — Custom Engineered Solutions for Tomorrow

SIZE P025

Power Range 10W-50W

"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.
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.

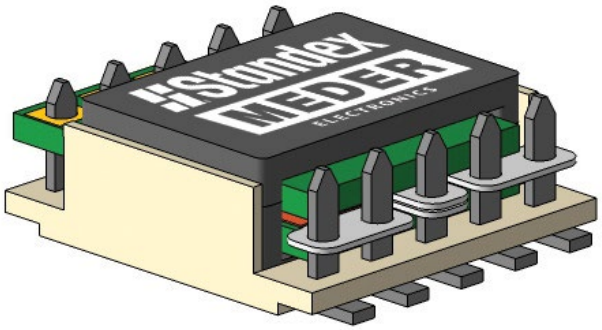
Highlights

- 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

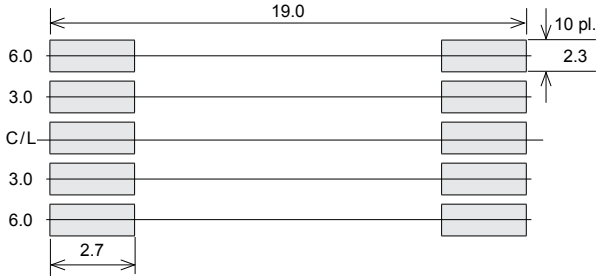
Customize beyond these examples!

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.

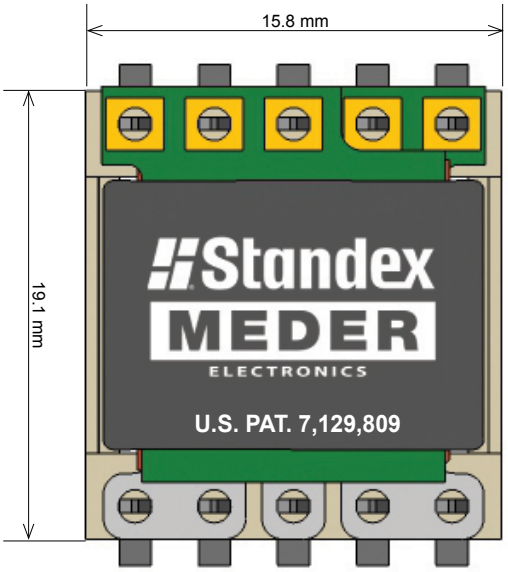
SURFACE MOUNT DESIGN



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.