

**SIZE P035**

**Power Range 20W-150W**



“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. 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.

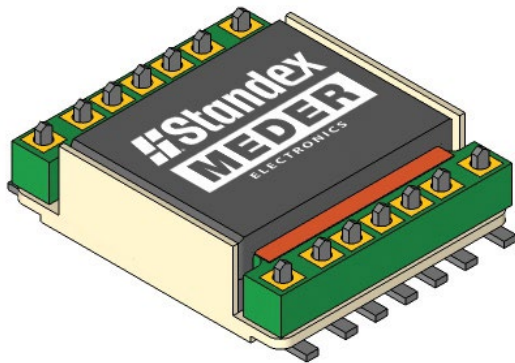
**Highlights**

- 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!**

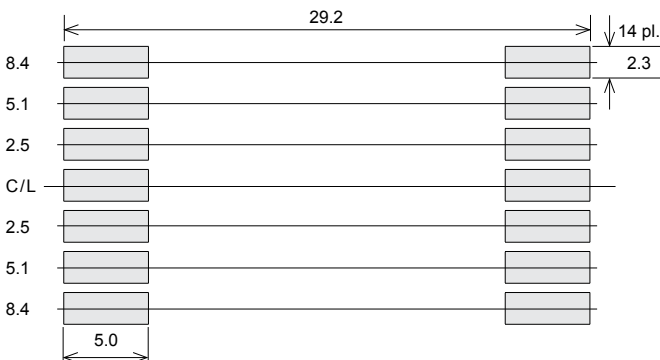
Rated power 20W-150W / Frequency range 200-400kHz  
 Surface mount (SMD) or through hole (TH)  
 Topology - Half-Bridge, Forward (w/active rest), Flyback  
 Current rating max. SMD=20A, TH = +30%  
 Isolation voltage pri-sec/pri-core 500-2,000VDC  
 Soft switching, single or multiple outputs  
 Different 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**



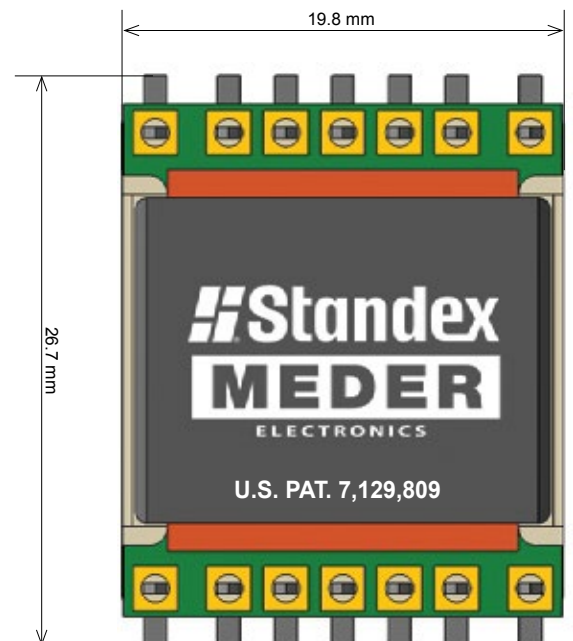
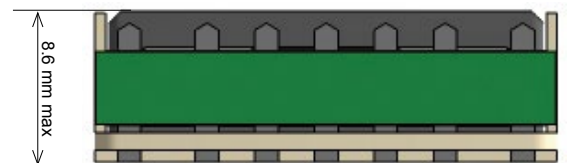
**PCB Pad Layout**

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)



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

Fill out a design request today! | [meder.com/planartransformers.html](http://meder.com/planartransformers.html)