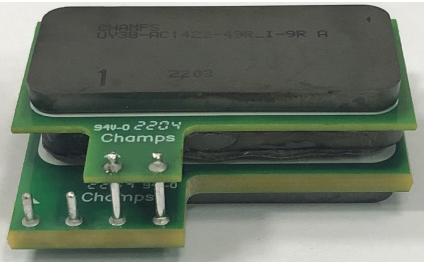


Champs-Tech UY38 PSFB Series PSFB: FWCT + Current Doubler Transformers



General Notes:

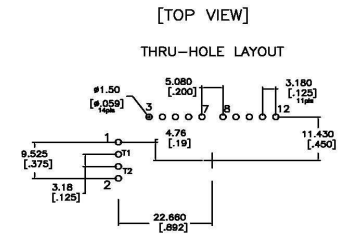
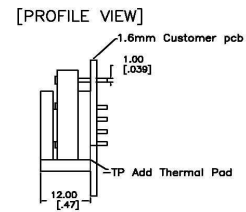
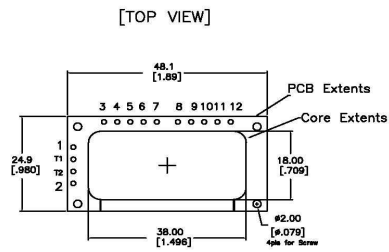
- 1. Topology: PSFB to Current Doubler and FWCT DC-DC Converter applications.
- 2. Add thermal pads in combination with heat sinks and clamps allows for higher power throughput at rated ambient and hot spot temperatures.
- 3. Size: 25mm wide x 48mm length x 10-12mm Height
- 4. Multilayer PCB optimization for lowest AC resistance & Proximity Loss Effect
- 5. Integer Turns available from 1T to 40T.
- 6. All designs can be supplied with planar windings embedded in the pcb of the Main Module of the converter. Installed power components, SM Assy and Heat Sink + incorporation into a module available.
- 7. Wide variety of PNs, Designs and Turns Ratios in stock. If not listed, Contact Us
- 8. Surface Mount, Thru-Hole, Pad-to-Pad, Embedded Planar Windings as Options

UY38 PSFB Catalog

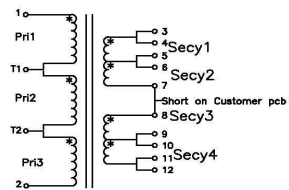
1. Output Power Ratings 600-1200W.

Champs PN	Vin (Min)	Vin (Max)	Vout	Iout (A dc)	Pout (Watts)	Freq (KHz)	Full Period Duty
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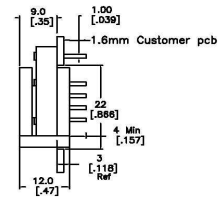
UY38-1216-250D-10mm	210	440	250	4.0	1000	300	92%
UY38-1216-250D-TH-10mm							
UY38-100202-250D	210	440	17	65	1100	300	83.4%
UY38-100202-TH-250D							
UY38-160202-250D	260	420	28	21.5	600	200	88.7%
UY38-160202-TH-250D							
UY38-160202-250D-10mm							
UY38-160202-TH-250D-10mm							
UY38-240404-250D	340	420	25	48	1200	200	91.0%
UY38-240404-TH-250D							
UY38-240404-250D	330	420	48	25	1200	200	90.0%
UY38-240404-TH-250D					Current Doubler		



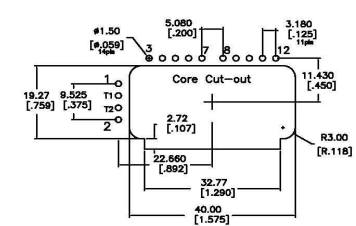
Schematic

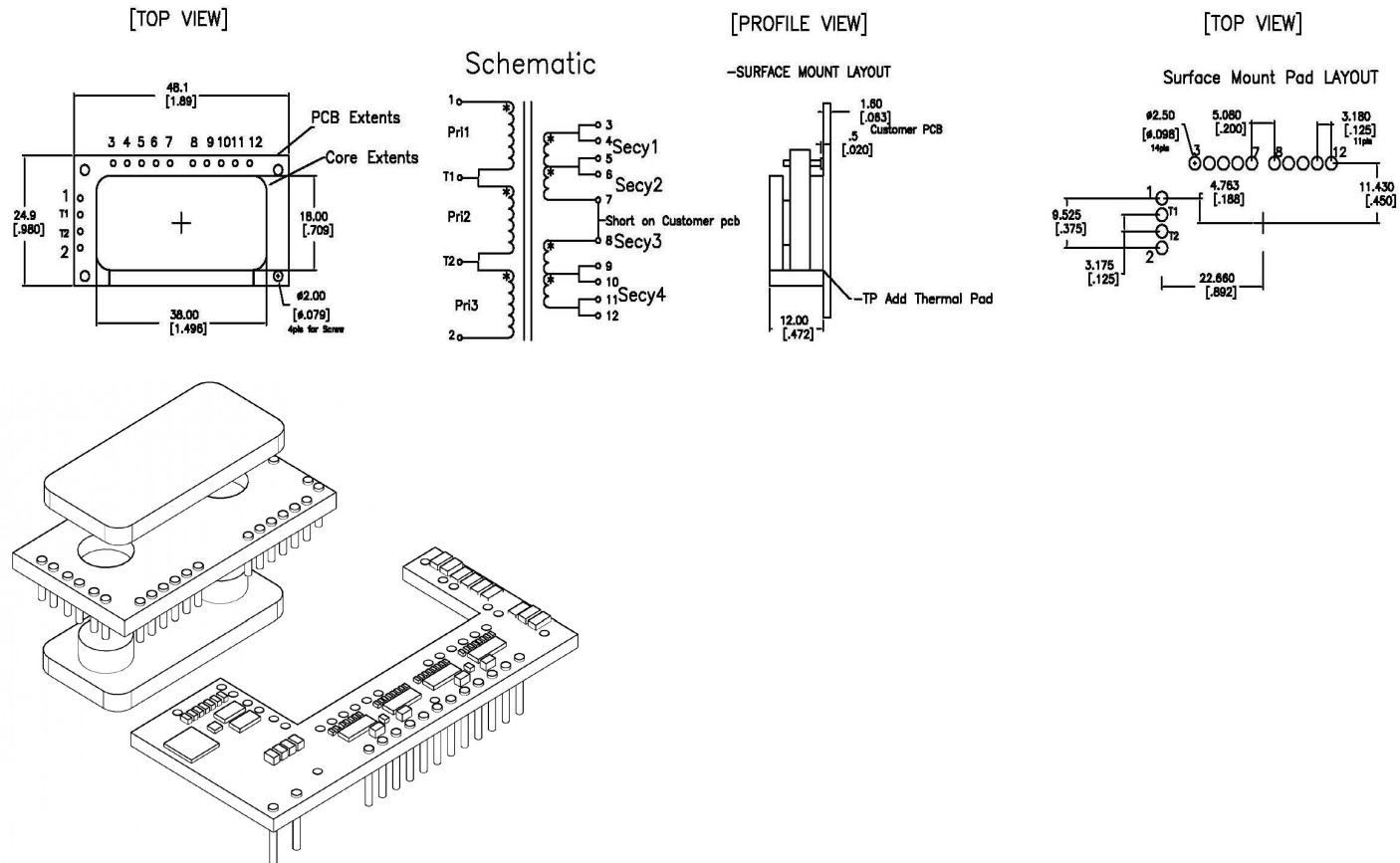


-TH LAYOUT w/ Core Cut-Out



THRU-HOLE LAYOUT with Core Cut-Out





UY38 Mechanical Drawing

