



Data Sheet: UY38 PSFB

UY38 PSFB Series – FWCT & Current Doubler

Key features & specifications

TOPOLOGY

PSFB – FWCT / Current Doubler

POWER RANGE

600–1200 W

INPUT

210–440 V (260–420 / 330–420 V groups)

FREQ. RANGE

200–300 kHz

PACKAGE

25 × 48 × 10–12 mm
(W×L×H)

TURNS

Integer 1T–40T available

TERMINATIONS

SMT · TH · pad-to-pad · thermal pad

EMBEDDED

Planar windings in main-module PCB

Phase-shift full-bridge transformers for current-doubler and full-wave center-tap (FWCT) outputs. Multilayer PCB windings optimized for low AC resistance and proximity loss. See the Reference Designs page for UY38-based demo-board part numbers.

Part number & parameter table

All values at $T_{amb} = 25\text{ }^{\circ}\text{C}$ unless noted. TH = thru-hole option. Where a base part number carries both FWCT and current-doubler configurations, order per your schematic – contact applications engineering to confirm.

Champs PN	Vin range (V)	Vout (V)	Iout (A)	Pout (W)	Freq (kHz)	Duty	Variants / notes
UY38-1216-250D-10mm	210–440	250	4.0	1000	300	92%	TH: UY38-1216-250D-TH-10mm
UY38-100202-250D	210–440	17	65	1100	300	83.4%	TH: UY38-100202-TH-250D
UY38-160202-250D	260–420	28	21.5	600	200	88.7%	TH: -TH-250D · -250D-10mm · -TH-250D-10mm
UY38-240404-250D	340–420	25	48	1200	200	91.0%	FWCT · TH variant
UY38-240404-250D	330–420	48	25	1200	200	90.0%	Current Doubler · TH variant

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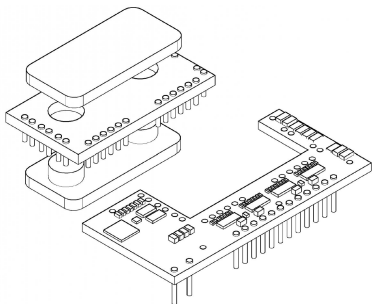
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Custom variants – Contact Us

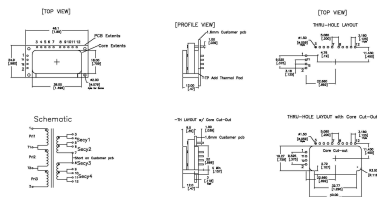
Mechanical outline & options



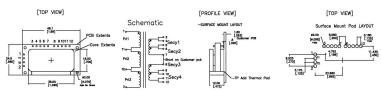
UY38 product on PCB



Mechanical / assembly drawing



Thru-hole (TH) option



Surface-mount (SM) option

General notes

- Topology: phase-shift full bridge (PSFB) to current doubler and FWCT DC-DC converter applications.
- Adding thermal pads in combination with heat sinks and clamps allows higher power throughput at rated ambient and hot-spot temperatures.
- Package: 25 mm wide × 48 mm long × 10–12 mm high.
- Multilayer PCB winding optimization for lowest AC resistance and proximity-loss effect.
- Integer turns from 1T to 40T are available.
- All designs can be supplied with planar windings embedded in the PCB of the converter main module; installed power components, SMT assembly, heatsink and module integration available.
- A wide variety of part numbers, designs and turns ratios is kept in stock – if not listed, contact us.
- Options: surface mount, thru-hole, pad-to-pad, thermal pad and embedded planar windings.

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