



Data Sheet: ER80 PSFB

ER80 PSFB Series (80R6-120101-8P)

Key features & specifications

TOPOLOGYPSFB – FWCT / Current
Doubler**POWER**200 W (this catalog
entry)**INPUT**

160–230 V

OUTPUT

12 V / 20 A

FREQ.

200 kHz

PACKAGE31.8 × 36.8 × 12–15 mm
(ER80)**URNS**

Integer 1T–40T

OPTIONSSMT · TH · thermal pad ·
embedded

ER80-core planar transformer for phase-shift full-bridge to current-doubler / FWCT converters. Multilayer PCB windings; proven in production PSFB designs.

Part number & parameter table

All values at $T_{amb} = 25\text{ °C}$ unless noted.

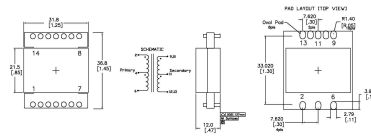
Champs PN	Vin min (V)	Vin max (V)	Vout (V)	Iout (A)	Pout (W)	Freq (kHz)	Duty
80R6-120101-8P	160	230	12	20	200	200	92.7%

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Mechanical outline & options



ER80 product



Mechanical drawing — dimensions, schematic & pad layout

General notes

- Proven in actual PSFB to current-doubler and FWCT configured DC-DC converter applications.
- Adding effective thermal conduction with thermal pads, in combination with heat sinks and clamps, allows higher power throughput at rated ambient and hot-spot temperatures.
- Package: 31.8 mm wide × 36.8 mm long × 12–15 mm high (ER80 core platform).
- Multilayer PCB winding optimization for lowest AC resistance and proximity-loss effect.
- Integer turns from 1T to 40T are available; windings can be used as primary or secondary. The mechanical outline allows a “flex” arrangement — contact the factory for any power-topology design.
- All designs can be supplied with planar windings embedded in the PCB of the converter main module; heatsink, installed power components, SMT assembly and module integration are also 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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