

REINFORCED POWER TRANSFORMERS UP TO 24W, 3000VRMS

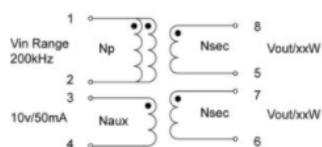


Pulse Electronics continues to innovate and bring to the market exciting new power magnetic platforms. The new [EP13R](#) uses the industry standard EP13 footprint but with an increased bobbin flange to enable reinforced safety insulation, 8.0mm of creepage distance and 3000Vrms isolation. Maintaining the standard footprint enables customers to minimize their PCB footprint, improve the system power density but still meet all of their safety agency requirements. The EP13R series is comprised of twelve part numbers designed for both forward and flyback topologies with input voltages ranging from 48vdc (33-75v) to universal AC (85-265v) and outputs of 3.3v, 5.0v & 12v. With power levels up to 24W the EP13R series is suitable for a wide-range of applications in the industrial segment where high isolation power supplier are critical to isolate sensitive circuits from the noisy environment and to ensure user safety. The EP13R platform can also be made available as a customized PN for as an IATF compliant part for low to mid power automotive applications including battery management systems (BMS), HEV/EV inverters, engineering control unit (ECU), on board charger (OBC) and DC/DC converter.

"Pulse continues to expand our catalog power transformer platforms to provide options and ideas to our customers so they can maximize their power density without the hassle and delay of needing to move to a fully customized solution. The EP13R minimizes footprint while maximizing through power."

John Gallagher | Product Marketing, Power PBU, Pulse Electronics

Pulse Series	PA5000.XXXNLT	PA5111.XXXNLT	PA5112.XXXNLT
Platform size	EP13R 17.7×13.5×16.5 mm Max	EP13R 17.7×13.5×16.5 mm Max	EP13R 17.7×13.5×16.5 mm Max
Power	20W	13W	24W
Topology	CM Flyback	Active Clamp Forward	CM Flyback
Input Voltage	33-57v	33-57v	85-265v
Output Voltages	2 x 3.3 volts 2 x 5.0 volts 2 x 12.0 volts	2 x 3.3 volts 2 x 5.0 volts 2 x 12.0 volts	2 x 3.3 volts 2 x 5.0 volts 2 x 12.0 volts



Although Pulse has a wide selection of catalog power transformers it is still often necessary to create custom modifications due to variations in input voltage range, operating frequency and output requirements to create application specific components. By leveraging the same materials as our catalog offering Pulse can quickly and easily tweak our design to meet your exact requirements. Contact Pulse to discuss your project needs.

To see Pulse's complete line of power transformers see our [Power Transformer Overview](#) or search our power transformers using our [Product Finder](#). Samples are available through the [web portal](#) or via the Pulse distribution network.