Attracting Tomorrow

EP9 IGBT

Gate Drive Transformer



TDK Electronics AG
Magnetics Business Group
Transformers Business Division
Munich, Germany
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IGBT Gate Drive Transformer

EP9 L pin series (2)

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Main fields of applications

- Gate driver circuits
- Isolated AC/DC, DC/DC converters

Key features

- Height: 11 mm max
- Footprint: 13 mm x 11 mm
- Wide temperature range from -40°C up to +150 °C
- Very low coupling capacity
- Qualified to AEC-Q200
- RoHS compatible
- Weight approx. 2.5 g



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IGBT Gate Drive Transformer

EP9 L pin series (3)

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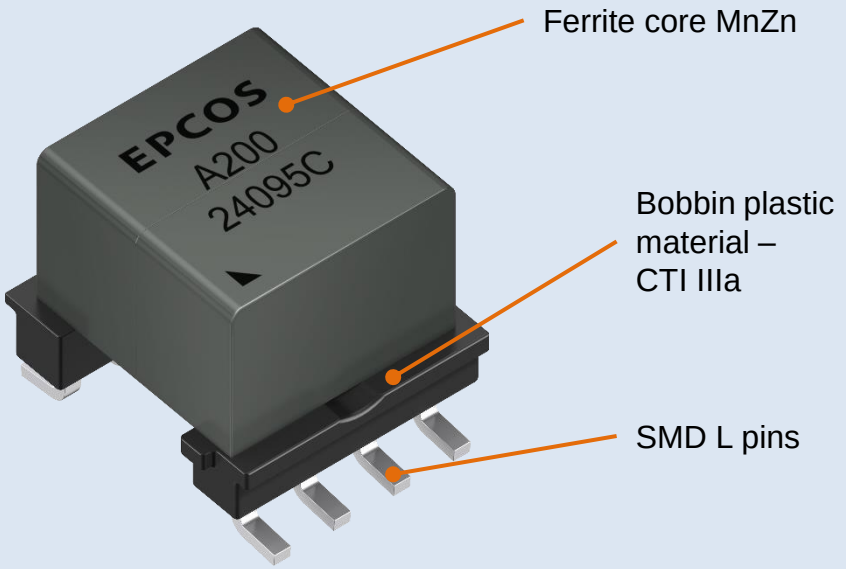
Insulation characteristics

- N1/ N2, N3: Creepage ≥ 5 mm, Clearance ≥ 5 mm [cumulative, core floating]
- Bobbin plastic material – CTI IIIa

- Typical operational frequency range 100 to 400 kHz
- Solderability (lead-free)

	Part numbers	
Ordering codes	B82804E0164A200	B82804E0473A200
Topology	Half Bridge	Push Pull
Turns ratio	1 : 2.8 : 1.53	1 : 2.9 : 1
High Voltage Test 50 Hz, 1 sec; V_{AC}	2500 V	
Coupling capacity	2 pF	
Voltage time product (E*dt) [unipolar] T≤ +150 °C	20 µVs	15 µVs
Voltage time product (E*dt) [bipolar] T≤ +150 °C	40 µVs	30 µVs



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EP9 L pin series – Sample kit

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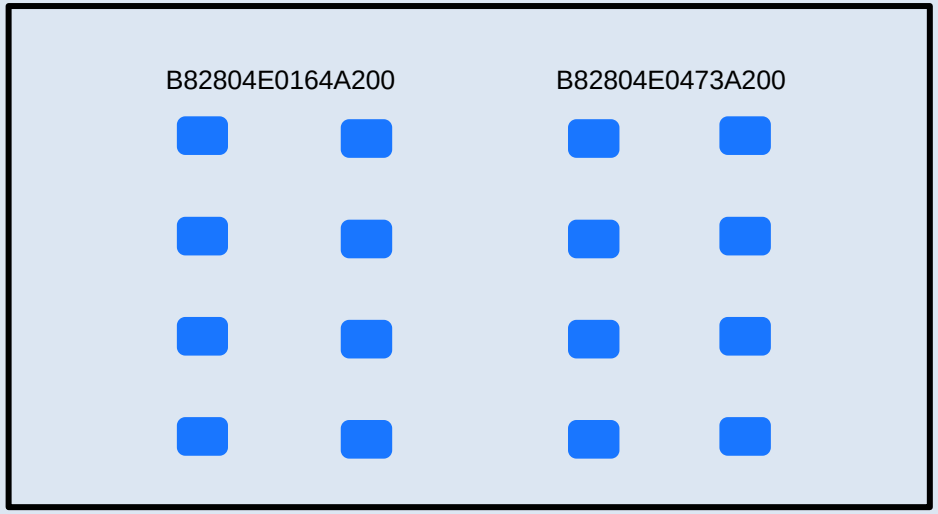

Ordering code: B82804X0001

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