NEWS RELEASE

2025/3/19

New Product: High Withstand Voltage DC/DC Converter Transformer for Automotive

'VER9060V'

SAGAMI ELEC CO., LTD. is pleased to announce the development of the DC/DC Converter Transformer for Automotive Equipment 'VER9060V' (W14.9mm×D10.0mm×H6.2mm) with sample availability starting from February 2025.

The VER9060V offers enhanced insulation performance, making it suitable for higher voltages application in xEV systems.

By adopting CTI LV.1 material for the base, the required creepage distance is reduced in accordance with IEC 60664.

The VER series achieves a low-profile compact design by efficiently utilizing the base dead space to accommodate the core, while maintaining ultra-high withstand voltage despite its smaller size.

This makes the VER9060V an ideal solution for flyback transformers in xEV inverters and battery junction boxes.

Sagami Elec will continue to expand its product lineup to meet diverse market requirements,offering a wide range of innovative solutions.

Applications

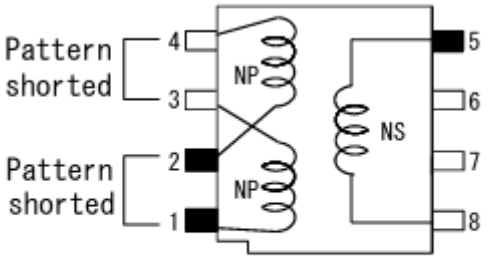
Inverter for xEV, Battery-junction-box, Automotive ECU, Power source for power control unit for HEV/EV, Isolation Power Supply for Automotive, PoE-enabled device

Features

- Ultra high withstand voltage up to～AC 4000Vrms

- CTI LV.1 material
- Customizable transformer design to meet specific requirements
- Supports multiple output configurations
- Low-profile design to prevent interference with surrounding components
- Operating temperature：-40℃～+150℃(Including self-heating)
- AEC-Q200 compliant

Characteristic example



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CONNECTION(BOTTOM VIEW)

Turns ratio	NP:NS=1:1.5
Inductance	1-3 // 2-4 26uH typ.
	5-8 58uH typ.
DCR	1-3 // 2-4 350mΩ typ.
Leakage Inductance	1-3 // 2-4 0.34uH typ.(5-8 short)

Inductance measurement frequency : 1kHz, 1V

Leakage inductance measurement frequency : 100kHz, 1V

Product Details

https://www.sagami-elec.co.jp/en/product/detail.php?type=VER9060V

Contact

For inquiries about this product (including quotations and sample requests), please contact us using the inquiry form.