

SMD Transformer / Automotive grade CEEH199

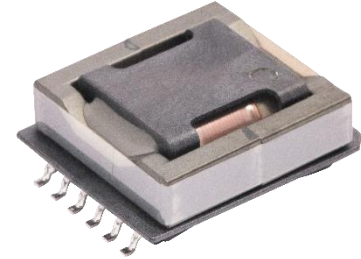


Feature

- High isolation transformer for IGBT/MOSFET gate drive
- Low profile
- High withstand voltage
- Multiple cores available

Application

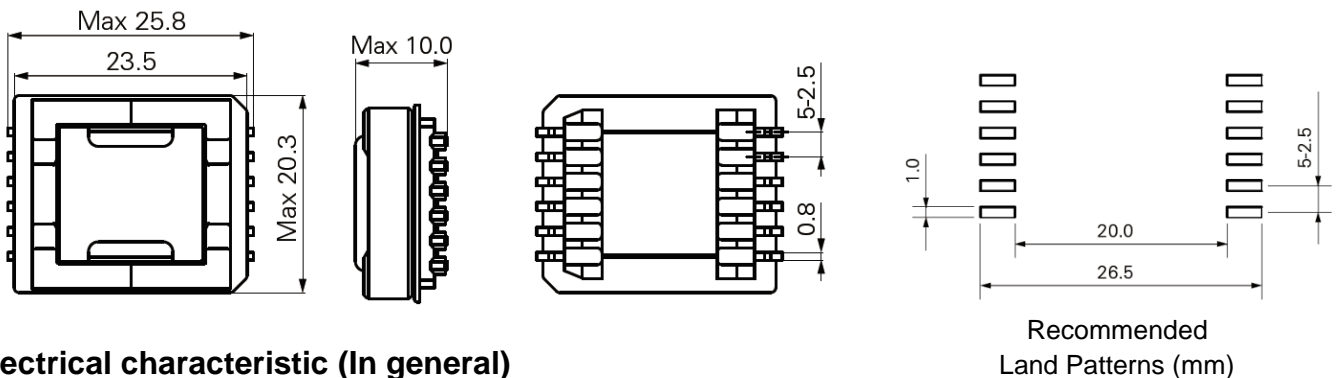
- AUX power supply for
 - * Electric compressor / PTC heater in HVAC system
 - * Traction inverter / OBC / BMS for xEV/EV
 - * Starter generator in Mild hybrid system
- Commercial / Industrial and Medical equipment



Custom design Available

Dimensions

- Size (L x W x H): 25.8mm x 20.3mm x 10.0mm (Max)
- Number of terminals: 6/6 (Primary/Secondary)



Electrical characteristic (In general)

- Topology: Flyback converter
- Operating frequency 500 kHz (Max)
- Operating Power 9.4W (@ 100 kHz), 13.7W (@ 250 kHz), 18.0W (@ 400 kHz)
- Withstand voltage: 2,500Vrms/1min (* Will be developed by your withstand voltage needs)
- Operating temperature range : - 40°C~+ 125°C (*Including coil's self-temperature rise)

Reliability

- Comply with AEC-Q200
- RoHS 2 Compliance

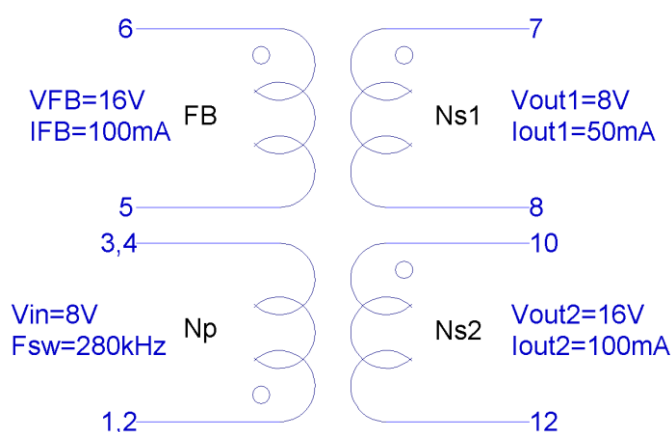
Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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【Design Example】

AUX power supply (Flyback converter) / On board charger

Schematic of transformer winding



ELECTRICAL CHARACTERISTICS (at 25°C)

ITEM	PIN	SPECIFICATION	MEASURING CONDITIONS
Inductance	(1,2-3,4)	14.5 μ H (Ref)	100kHz/1V
Leakage inductance	(1,2-3,4)	0.12 μ H (Ref)	100kHz, 1V Tie (7,8,10,12)
Inductance	(5-6)	7.0 μ H (Ref)	100kHz/1V
Inductance	(7-8)	25.8 μ H (Ref)	100kHz/1V
Inductance	(10-12)	25.8 μ H (Ref)	100kHz/1V
Turn Ratio	(Np / FB / Ns1 / Ns2)	1 / 0.70 / 1.3 / 1.3	100kHz/1V
HI-POT	(Np, FB)-(Ns1,Ns2)	AC 2500 Vrms / 1minute	50/60 Hz

* OPERATING TEMPERATURE RANGE: -40°C~125°C . (INCLUDING TEMPERATURE RISE).

* STORAGE TEMPERATURE RANGE: -40°C~125°C



For sales office information, please [click here](#) to visit our website.