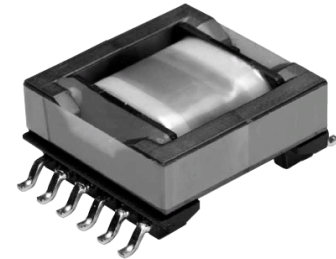


SMD Transformer / Automotive grade CEEH178



Feature

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



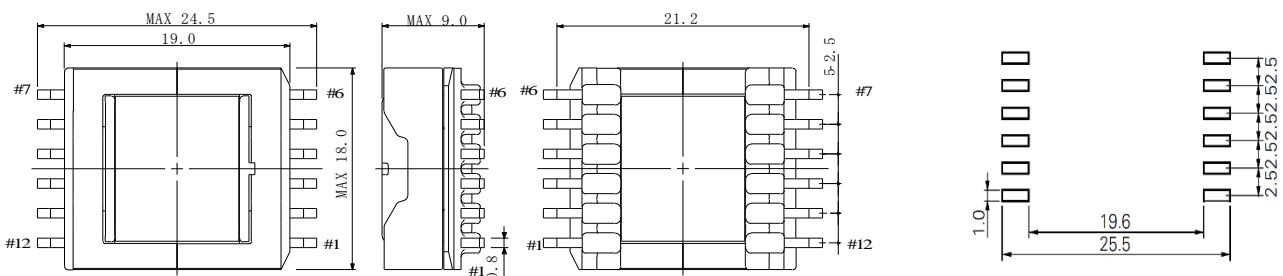
Application

- 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): 24.5mm x 18.0mm x 9.0mm (Max)
- Number of terminals: 6/6 (Primary/Secondary)



Electrical characteristic (In general)

- Topology: Flyback converter
- Input voltage: Up to 500V
- Operating frequency 500 kHz (Max)
- Operating Power 10.8W (@ 100 kHz), 13.2W (@ 250 kHz), 15.6W (@ 400 kHz)
- Withstand voltage : 1,500Vrms/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.

SMD Transformer / Automotive grade CEEH178

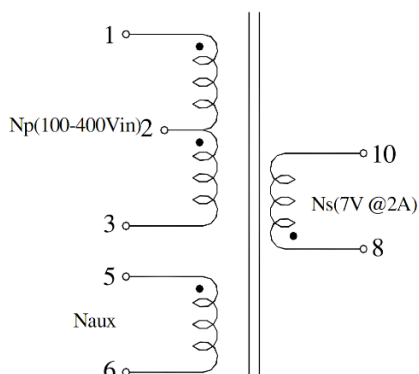


[IC reference]

Wide input voltage with no opto-isolator / Flyback transformer

- IC manufacture : Analog Devices
- IC part number : LT8316
- Sumida part number : 11338-T195

Schematic of transformer winding



ELECTRICAL CHARACTERISTICS (AT 25°C)

ITEM	PIN	SPECIFICATION	MEASURING CONDITIONS
INDUCTANCE	(3-1)	1000 μ H \pm 10%	100kHz/1V
LEAKAGE INDUCTANCE	(3-1)	34uH Max (17uH Typ.)	100kHz/1V, Tie(5+6+8+10)
DCR	(3-1)	3.0 Ω Max (2.5 Ω Typ.)	
	(10-8)	60m Ω Max (51m Ω Typ.)	
	(5-6)	420m Ω Max (350m Ω Typ.)	
TURN RATIO	Np/Ns/Naux	14/1/1.7	
HI-POT	(Np, Naux)-Ns	3000Vrms	2SEC. 1.0mA, 50/60Hz
	Coil-Core	1500Vrms	
RATED CURRENT	(3-1)	0.9ADC	

- * OPERATING TEMPERATURE RANGE: -40°C~125°C. (INCLUDING TEMPERATURE RISE).
- * STORAGE TEMPERATURE RANGE: -40°C~125°C.
- * THE RATED CURRENT APPLIED ON THIS COIL WILL CAUSE ITS INDUCTANCE DECREASE TO OVER 80% OF ITS INITIAL VALUE



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

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