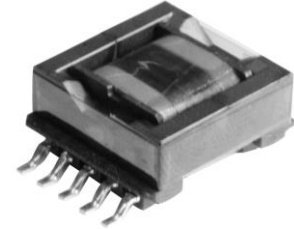


# SMD Transformer / Automotive grade CEEH158



## Feature

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



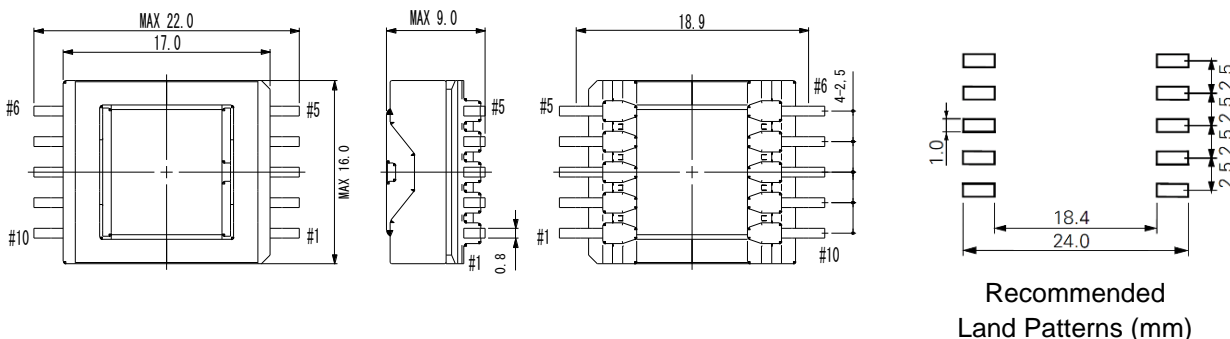
## Application

- 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): 22.0mm x 16.0mm x 9.0mm (Max)
- Number of terminals: 5/5 (Primary/Secondary)



## Electrical characteristic (In general)

- Topology: Flyback converter
- Input voltage: Up to 500V
- Operating frequency 500 kHz (Max)
- Operating Power 4.8W (@ 100 kHz), 7.8W (@ 250 kHz), 11.4W (@ 400 kHz)
- Withstand voltage : 1,500Vrms/1min (\* Will be designed for your withstand voltage request)
- 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 CEEH158

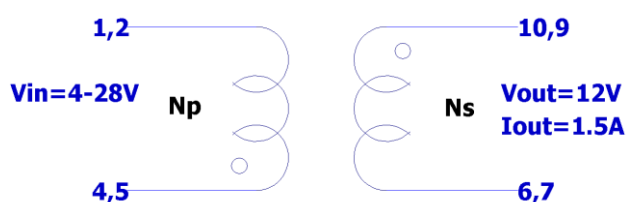


## 【IC reference】

### Power supply for IGBT gate driver / No-Opto Isolated Flyback transformer

- IC manufacture : Analog Devices
- IC part number LT8302 / DC2821A
- Sumida part number : 12301-T223

## Schematic of transformer winding



## ELECTRICAL CHARACTERISTICS (at 25°C)

ITEM	PIN	SPECIFICATION	MEASURING CONDITIONS
Inductance	(1,2-4,5)	10uH+/-0.9uH	100kHz, 1V
Leakage inductance	(1,2-4,5)	0.25uH Max.	100kHz, 0.1V
Turn Ratio	(Np: Ns)	1:0.8	100kHz/1V
D.C.R.	(1-5)	37mΩ (Ref)	
D.C.R.	(10-6)	38mΩ (Ref)	
D.C.R.	(7-9)	38mΩ (Ref)	
D.C.R.	(2-4)	48mΩ (Ref)	
Withstand voltage	(1,2,3,4-5,8)	AC 1500 Vrms / 1minute	50/60 Hz, 1mA
Withstand voltage	(COIL-CORE)	AC 500 Vrms / 1minute	50/60 Hz, 1mA

\* 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.

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