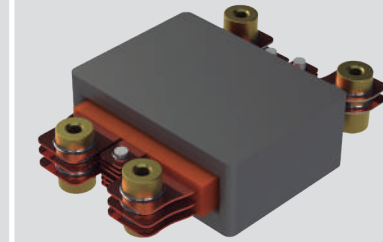


# NPT-001

## Power Transformers for HEV Systems

INDUCTIVE COMPONENTS / DCDC TRANSFORMERS



### APPLICATIONS

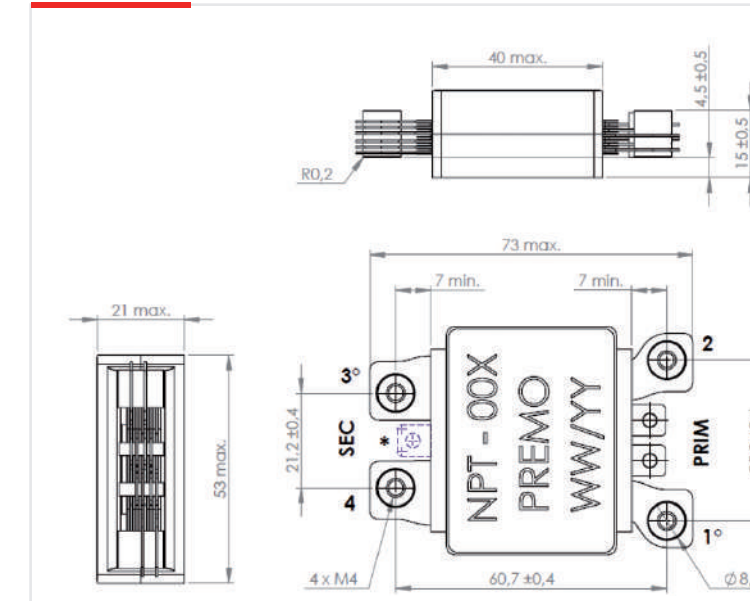
- › Power Components for HEV Onboard Automotive SMPS

### 01 FEATURES

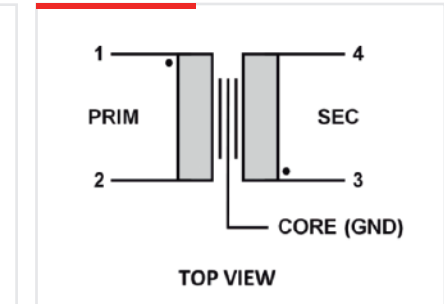
- › Design for high-performance automotive 2kW SMPS
- › Low-profile copper frames technology
- › Dedicated to 48V battery systems
- › Threaded M4 terminals ready for bus-bars
- › 3:2 turn-ratios proposed as standard
- › Working frequency from 80 to 150kHz
- › Low leakage inductance value
- › 2.5kV isolation between primary and secondary
- › Creepage distance > 3mm
- › High operating temperature range -40 to +155°C
- › UL94V-0 and RoHS materials
- › Design compliant with AEC-Q200 requirements
- › No thermal aging effect
- › Weight : approx. 210g

### 03 SPECIFICATIONS

#### DIMENSIONS



#### ELECTRICAL DIAGRAM



#### ELECTRICAL SPECIFICATIONS

IDC-link Input Voltage Vdc (V)	60-100
Typ Output Voltage (V)	36-60
Max Output Current (A)	55
Max Power(W)	2000
Switching Frequency (kHz)	80-100
Max Duty cycle	0.48
Recomended Topology	ZVS PS FB with current doubler
Mag. Inductance (µH)	> 90
Leakage Inductance (µH)	0.15
Turn Ratio (Pri:Sec)	3:2
Max Total Losses (W)	15