Isolated Push-Pull Transformer

**APPLICATION**
- Automotive BMS in xEV (ex: TI SN6505A/B chips)

**FEATURES**
- Isolated push-pull transformer for BMS in xEV
- 3:1:2:1 turn-ratio
- Input voltage 5Vdc TYP
- Switching frequency 300-600kHz (450KHz TYP)
- MAX Et product 13Vµs (unipolar 50%)
- MAX current 300mA PRIM / 100mA SEC
- Working voltage up to 1000Vdc MAX
- Reinforced isolation IEC 61558-1/-2-16 (PD2)
- Creepage distance > 10mm (CTI-I > 600V)
- Wide operating temperature range -40 to +125°C
- UL94 and RoHS materials
- Design based on AEC-Q200D
- Weight: approx. 3grams

**SPECIFICATIONS**
- **INDUCTANCE at 25°C**
  - $L_{1-2}$ (100kHz/0.1mVac): 90-170µH (130µH TYP)
- **TURN-RATIO**
  - $N_{1-2} : N_{3-4}$ (1-10kHz/1Vac): 2:1
- **DC RESISTANCE at 25°C**
  - DCR, PRIM: 0.6Ω MAX / 1.2Ω MAX
- **LEAKAGE INDUCTANCE**
  - $L_{lk}$ (100kHz/1Vac): 0.6µH MAX (0.4µH TYP)
- **STRAY CAPACITANCE**
  - $C_{ps}$ (100kHz/1Vac): 12pF MAX (8pF TYP)
- **DIELECTRIC STRENGTH**
  - Between PRIM/SEC Wdgs: 5kVac (50Hz/3mA/1min)