Gate-Drive Transformer 1:1:5 16Vµs

**FEATURES**
- Gate-Drive Transformer for IGBT control
- Forward operation (demagnetizing winding included)
- Working voltage up to 500Vdc
- Insulation 3kV
- ETmax product of 16Vµs
- Wide operating temperature range -40 to +125°C
- UL94 and RoHS materials
- AEC-Q200 qualified
- Weight: approx 2 grams

**APPLICATIONS**
- Automotive inverters for electrical motors in EV/PHV

**SPECIFICATIONS**

**INDUCTANCE at 25°C**
\[L_{1-2} \text{ (100kHz/0.1Vac)} \leq 90\mu\text{H} \leq 110\mu\text{H} \]

**TURN-RATIO**
\[N_{1-2} : N_{2-3} : N_{6-4} \text{ (10kHz/1Vac)} = 1:5 \]

**DC RESISTANCE at 25°C**
\[DCR_{1-2} = DCR_{2-3} = 0.3\Omega \text{ MAX (0.26}\Omega \text{ TYP)} \]
\[DCR_{4-6} = 0.55\Omega \text{ MAX (0.45}\Omega \text{ TYP)} \]

**LEAKAGE INDUCTANCE**
\[L_{lk} \text{ (100kHz/1Vac)} \leq 0.4\mu\text{H} \text{ MAX (0.15}\mu\text{H TYP)} \]

**STRAY CAPACITANCE**
\[CPS \text{ (100kHz/1Vac)} \leq 50\text{pF MAX} \]

**DIELECTRIC STRENGTH**
Between Windings: 3kVdc (3mA/1min)