Signal transformer for HPGP (HomePlug Green PHY™) PLC modems
For power line communication devices acc. to IEC 15118 standard
For charging systems according to IEC 61851-1
Insertion loss < 0dB on 2-30MHz (100-120 Ohms)
SMD coil-former technology
Wide operating temperature range -40 to +125°C
UL94 and RoHS materials
Designed for AEC-Q200
Weight: approx 3grams

01 FEATURES

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02 OPERATION

- PLC signal transmission
- OBC with communication with the charging station

APPLICATONS

- Automotive EV/PHV AC/DC onboard battery chargers

ELECTRICAL SPECIFICATIONS

- Inductance at 25°C
  L1-8 = L4-5 (2MHz/1Vac) 9µH MIN (15µH TYP)
- Turn-Ratio
  N1-8 : N4-5 (10kHz/1Vac) 1:1
- DC Resistance at 25°C
  DCR1-8 = DCR4-5 80mΩ MAX (65mΩ TYP)
- Leakage Inductance
  Lm (100kHz/1Vac) 0.25µH MAX (0.1µH TYP)
- Stray Capacitance
  Cm (100MHz/1Vac) 7pF MAX (5pF TYP)
- Dielectric Strength
  Between Windings 500Vac (50Hz/1mA/1min)