ZVS PSFB Transformer 3kW 100kHz 26:1+1

**APPLICATIONS**
- Automotive HV/LV DCDC onboard converters

**FEATURES**
- ZVS Phase-Shift Full-bridge 3kW transformer
- Work with ZVS inductor 14µH / 14Apk
- Recommended output inductor 1H / 180Adc
- Switching frequency 100kHz
- UL94 and RoHS materials (F/155°C)
- Design based on AEC-Q200
- Weight: approx 350grams

**OPERATION**
- Vin = 420-850Vdc / Vout = 14Vdc
- Operating temperature -40/+125°C with cooling

**SPECIFICATIONS**

**DIMENSIONS (mm)**

**ELECTRICAL DIAGRAM**

**ELECTRICAL SPECIFICATIONS**

**INDUCTANCE at 25°C**
- L1-2 = Lp (100kHz/1Vac)
- 2,25mH ±20%

**DC RESISTANCE at 25°C**
- R1-2
- 30mΩ MAX
- R3-5
- 0,30mΩ MAX

**TURN-RATIO**
- Np:Ns 26:1+1

**LEAKAGE INDUCTANCE**
- Llk1-2 (100kHz/1Vac, 3-4-5 shorted)
- 8µH MAX

**DIELECTRIC STRENGTH**
- {Np}/({Ns+CORE})
- 3kVAc/50Hz/5mA/1min*
- {Ns}/(CORE)
- 500VAc/50Hz/5mA/1min*

(*) 1min in qualification / 2sec in mass production

**OPERATION**

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