**FLYT-005**

Flyback Tr. 15uH 2:1:1:0.4:1

**INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER**

**APPLICATIONS**

- Automotive EV/PHV AC/DC onboard battery chargers

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**01 FEATURES**

- Quasi-resonant Mode Fly-back
- Weight: approx 33g

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**02 OPERATION**

- Operating temperature -40/+125°C
- ESTIMATED TOTAL LOSSES (±15kHz, Pout=13W, Vin=6V, 105°C):
  - Copper losses (DC) 520 mW
  - Core losses 550 mW
  - Total losses 1.6 W

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**SPECIFICATIONS**

**FLYT-005**

**MAG. INDUCTANCE at 25°C**

| L (1.4 – 3.6) | 15 µH TYP (16.8 µH MAX) |
| PRIMARY (1.4 – 3.6) | 360 nH MAX |
| SECONDARY 1: B5 | 250 nH MAX |

**DC RESISTANCE at 25°C**

| B1/B2, Pins 14 to 15 | 50 mΩ TYP (58 mΩ MAX) |
| B3, Pins 11 to 12 | 45 mΩ TYP (50 mΩ MAX) |
| B4, Pins 9 to 10 | 49 mΩ TYP (66 mΩ MAX) |
| B5, Pins 19 to 20 | 28 mΩ TYP (53 mΩ MAX) |
| B6, Pins 19 to 20 | 52 mΩ TYP (60 mΩ MAX) |

**TURN RATIO (sink/1Vac)**

| (B1)/B2 : B3 : B4 : B5 : B6 | 2 : 1 : 1 : 0.4 : 1 |

**ELECTRICAL DIAGRAM**

**ELECTRICAL SPECIFICATIONS**

**DIELECTRIC STRENGTH**

- Between PRI (B1, B2) and REG (B6): 100V (50/60Hz; 3 mA; 2 sec)
- Between PRI, REG (B1, B2, B6) and SEC1,4 (B3, B4): 4KV (50/60Hz; 3 mA; 2 sec)
- Between PRI, REG (B1, B2, B6) and SEC1 (B5): 4KV (50/60Hz; 3 mA; 2 sec)
- Between SEC3,4 (B3, B4) and SEC1 (B5): 2.5KV (50/60Hz; 3 mA; 2 sec)
- Between all windings (B1->B6) and CORE: 2KV (50/60Hz; 3 mA; 2 sec)