**FLYT-003**

Flyback Tr. 5W/100kHz 7:5:7:5:5:5

**INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER**

**APPLICATIONS**
- Automotive EV/PHV AC/DC onboard 3-phase battery chargers

**01 FEATURES**
- Flyback Transformer for 15kW battery chargers
- 3 outputs +3.3V (PA / PB / PC) with reinforced insulation (cr >5mm)
- Switching frequency 100kHz
- Insulation according to EN 60664-1
- UL94 and RoHS materials (F/155°C)
- Design based on AEC-Q200
- Weight : approx 25g

**02 OPERATION**
- Operating temperature -40/+125°C
- Vin - 6V MIN / Vout - 3x3.3V/0.1A  5V/0.4A  3.3V/0.4A
- Max duty cycle : - 0.55
- Primary current : I rms = 2Arms MAX @Vin = 6V (Ipk = 3.8Apk)
- Estimated losses @Vin = 6V / 100°C - Copper = 0.3W / Iron = 0.05W

**SPECIFICATIONS**

| MAG. INDUCTANCE at 25°C | LV/LV12V (100kHz/0.1Vac) | 12µH ±12%
| LEAKAGE INDUCTANCE | LV/LV12V (100kHz/1Vac) | 350nH MAX
| DC RESISTANCE at 25°C | LV12V | 20mΩ TYP (25mΩ MAX)
| RLV12V | 45mΩ TYP (55mΩ MAX)
| R5V | 60mΩ TYP (80mΩ MAX)
| RPA = PPB = PPC | 84mΩ TYP (95mΩ MAX)
| DIELECTRIC STRENGTH | LV12V + LV 3V/5V/5V (PA-PB-PC) | 4.5kVac/50Hz/3mA/1min*
| Between other wdg and with core | 1.5kVac/50Hz/3mA/1min*
| TURN RATIO (10kHz/1Vac) | LV/3.3V:5V:PA:PB:PC | 7:5:7:5:5:5