Flyback Transformer for 11kW battery chargers

3 outputs +12V (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
Operating temperature -40/+125°C
Vin = 7V MIN / Vout = 3x12V / 0.4A
Max duty cycle : > 0.65
Primary current : Ims = 4.5Arms MAX (Vin = 7V / Ipk = 9Apk)
Estimated losses @Vin = 7V / 100°C : Copper = 0.3W / Iron = 0.1W

New
FLYT-002
Flyback Tr. 16W/100kHz 5:9:9:9:9

INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER

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

FEATURES
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OPERATION
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SPECIFICATIONS

MAG. INDUCTANCE at 25°C
LL12V = Lp (100kHz/0.1Vac) 5µH ±10%

LEAKAGE INDUCTANCE
LF4V 12V (100kHz/Vac) 250nH MAX

DC RESISTANCE at 25°C
VR12V 9mΩ TYP (11mΩ MAX)
VRFEED12V 200 mΩ TYP (240mΩ MAX)
RPA12V / RPB12V / RPC12V 53mΩ TYP (60mΩ MAX)

DIELECTRIC STRENGTH
LL12V + LVFEED12V / LL12V + PB12V + PA12V
Between other wdgs and with Core 1.5kVac/50Hz/3mA/1min*
4.5kVac/50Hz/3mA/1min*
4.5kVac/50Hz/3mA/1min*
LVFEED PA/PB/PC 5.9:9:9.9

DIMENSIONS

ELECTRICAL DIAGRAM