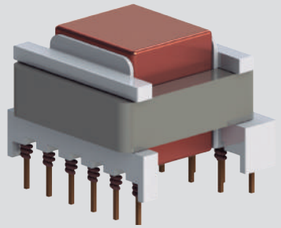
New

FLYT-002

Flyback Tr. 16W/100kHz 5:9:9:9:9

INDUSTRIAL COMPONENTS / **FLYBACK TRANSFORMER**



APPLICATIONS

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

01 FEATURES

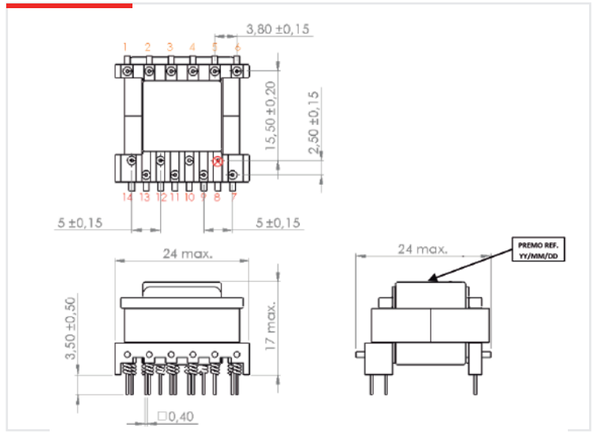
› Flyback Transformer for 11kW battery chargers
› 3 outputs +12V (PA / PB / PC) with reinforced insulation (cr >5mm)
› Switching frequency 100kHz
› Insulation according to EN 60664-1
› UL94 and RoHS materials (F/155°C)
› Design based on AEC-Q200
› Weight : approx 25g.

02 OPERATION

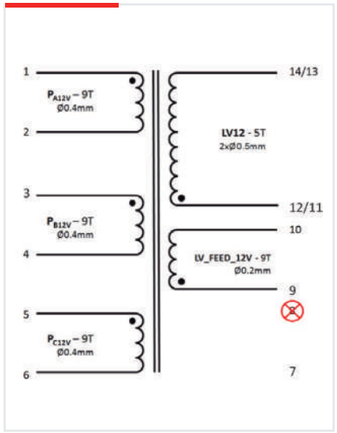
› Operating temperature -40/+125°C
› Vin = 7V MIN / Vout = 3x12V / 0,4A
› Max duty cycle : = 0,55
› Primary current : Irms = 4,5Arms MAX @Vin = 7V (Ipk ≈ 9Apk)
› Estimated losses @Vin = 7V / 100°C : Copper = 0,3W / Iron = 0,1W

03 SPECIFICATIONS

DIMENSIONS



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS

MAG. INDUCTANCE at 25°C	
LLV12V = Lp (100kHz/0,1Vac)	5µH ±10%
LEAKAGE INDUCTANCE	
LfLV 12V (100kHz/1Vac)	250nH MAX
DC RESISTANCE at 25°C	
RLV12V	9mΩ TYP (11mΩ MAX)
RLVFEED12V	200 mΩ TYP (240mΩ MAX)
RPA12V / RPB12V / RPC12V	53mΩ TYP (60mΩ MAX)
DIELECTRIC STRENGTH	
{LV12V + LVFEED12V}/{PC12V + PB12V + PA12V}	4,5kVac/50Hz/3mA/1min*
Between other wdgs and with Core	1,5kVac/50Hz/3mA/1min*
TURN RATIO (10kHz/1Vac)	
LV:FEED:PA:PB:PC	5:9:9:9:9