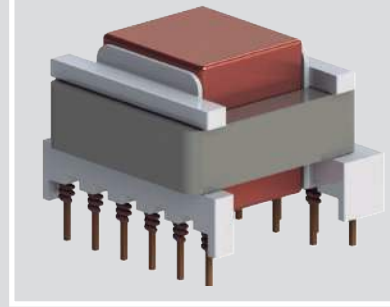


New

## 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

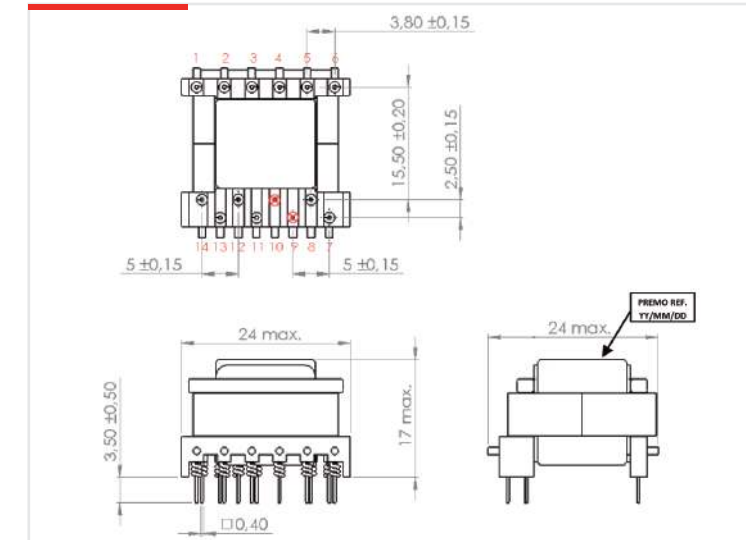
- › Flyback Transformer for 11kW battery chargers
- › 3 outputs +3,3V (PA / PB / PC) with reinforced insulation (cr >5mm)
- › Switching frequency 100kHz
- › Insulation according to EN 60664-1
- › UL94 and RoHS materials (F/155°C)
- › Design based on AEC-Q200
- › Weight : approx 25g.

### 02 OPERATION

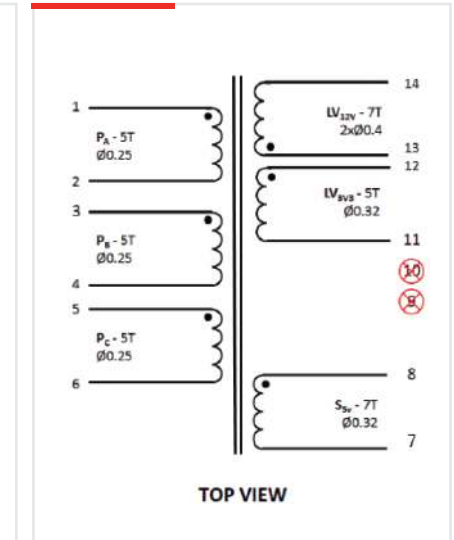
- › Operating temperature -40/+125°C
- › Vin = 6V MIN / Vout = 3x3,3V/0,1A 5V/0,4A 3,3V/0,4A
- › Max duty cycle : = 0,55
- › Primary current : Irms = 2Arms MAX @Vin = 6V (Ipk ≈ 3,8Apk)
- › Estimated losses @Vin = 6V / 100°C : Copper = 0,3W / Iron = 0,05W

### 03 SPECIFICATIONS

#### DIMENSIONS



#### ELECTRICAL DIAGRAM



#### ELECTRICAL SPECIFICATIONS

##### MAG. INDUCTANCE at 25°C

LLV12V = Lp (100kHz/0,1Vac)	12µH ±12%
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##### LEAKAGE INDUCTANCE

LfLV 12V (100kHz/1Vac)	350nH MAX
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##### DC RESISTANCE at 25°C

RLV12V	20mΩ TYP (25mΩ MAX)
RLV3V3	45mΩ TYP (55mΩ MAX)
RS5V	60mΩ TYP (80mΩ MAX)
RPA = PPB = PPC	84mΩ TYP (95mΩ MAX)

##### DIELECTRIC STRENGTH

{LV12V + LV3V3}/{S5V}/{PA+PB+PC}	4,5kVac/50Hz/3mA/1min*
Between other wdgs and with core	1,5kVac/50Hz/3mA/1min*

##### TURN RATIO (10kHz/1Vac)

LV:3,3V:5V:PA:PB:PC	7:5:7:5:5
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