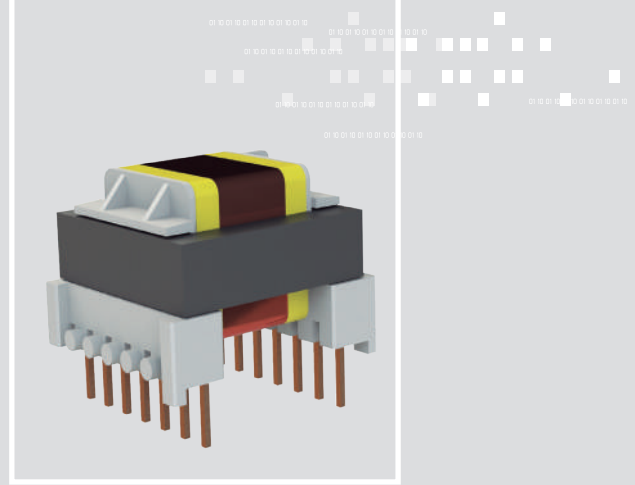


New

FLYT-001

Flyback Tr. 5W/100kHz 10:3:7+4:10+4

INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER



APPLICATIONS

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

01 FEATURES

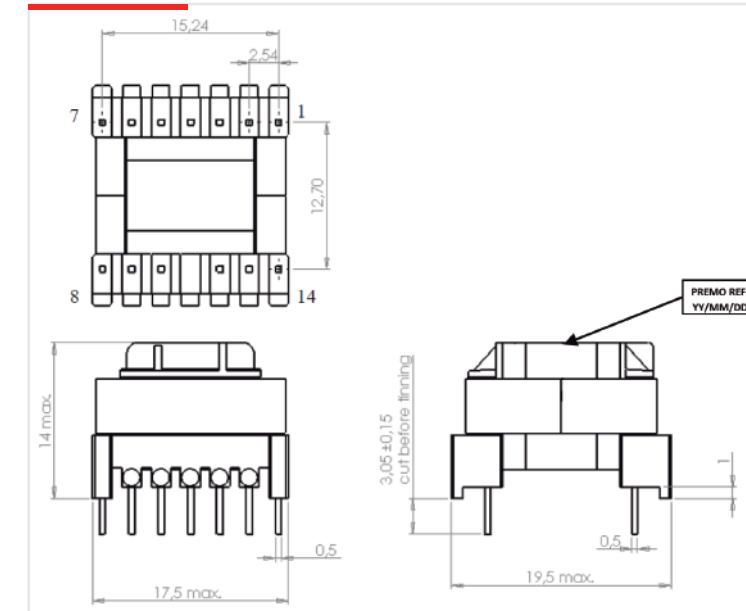
- › Flyback Transformer for 3,5kW battery chargers
- › Multi outputs with reinforced insulation (cr >5mm)
- › Switching frequency 100kHz
- › Insulation according to EN 60664-1
- › UL94 and RoHS materials (F/155°C)
- › Design based on AEC-Q200
- › Weight : approx 6g.

02 OPERATION

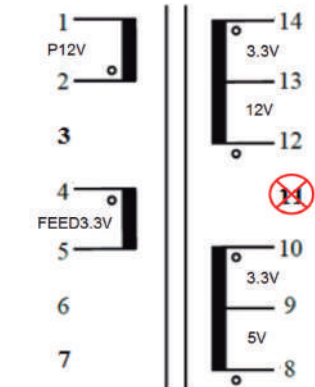
- › Operating temperature -40/+125°C
- › $V_{in} = 7V \text{ MIN} / V_{out} = 2 \times 3,3V / 0,2A \quad 12V / 0,2A \quad 5V / 0,2A$
- › Max duty cycle : = 0,50
- › Primary current : $I_{rms} = 1,8A_{rms} \text{ MAX} @ V_{in} = 7V (I_{pk} \approx 4,7A_{pk})$
- › Estimated losses @ $V_{in} = 7V / 100^\circ C$: Copper = 0,3W / Iron = 0,1W

03 SPECIFICATIONS

DIMENSIONS



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS

MAG. INDUCTANCE at 25°C

$$L_{P12V} = L_p (100kHz/0,1Vac) \quad 6,3\mu H \pm 5\%$$

LEAKAGE INDUCTANCE

$$L_{f_{P12V}} (100kHz/1Vac) \quad 600nH \text{ MAX}$$

DIELECTRIC STRENGTH

{1-2 + 4-5}/{8-9-10 + 12-13-14}	3kVac/50Hz/3mA/1min*
{8-9-10}/{12-13-14}	1,5kVac/50Hz/3mA/1min*
{1-2}/{4-5}	0,5kVac/50Hz/3mA/1min*

TURN RATIO (10kHz/1Vac)

2-1 : 4-5 : 8-9 : 10-9 : 12-13 : 14-13	10:3:7+4:10+4
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