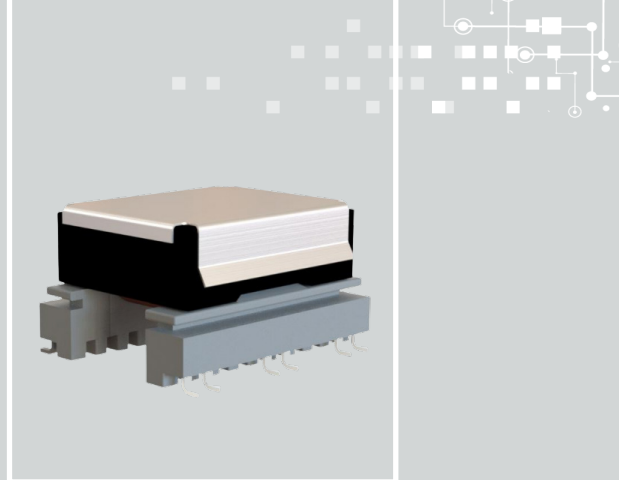


New

# FLYT-004

Flyback Tr. 17.5  $\mu$ H 2:1:1:1:1

INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER



## APPLICATIONS

> Automotive EV/PHV AC/DC onboard battery chargers

## 01 FEATURES

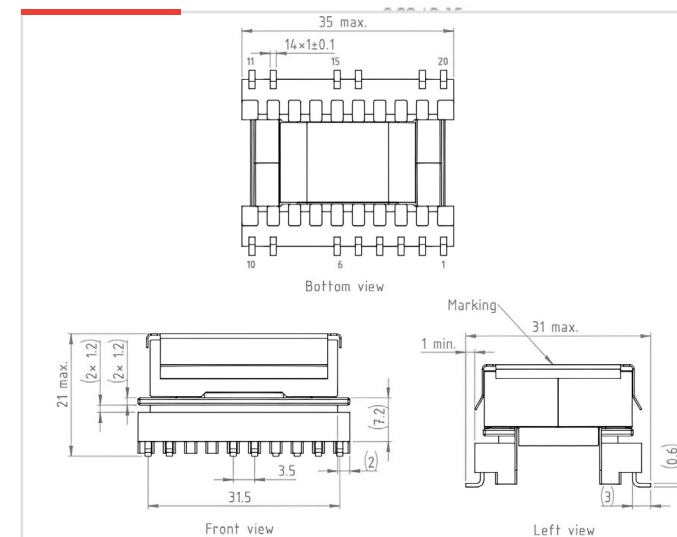
- > Quasi-resonant Mode Fly-back
- > Switching Frequency 50kHz – 300kHz
- > Duty cycle 85% MAX
- > Total output power Approx. 10 W (nominal)
- > Weight: approx 33g

## 02 OPERATION

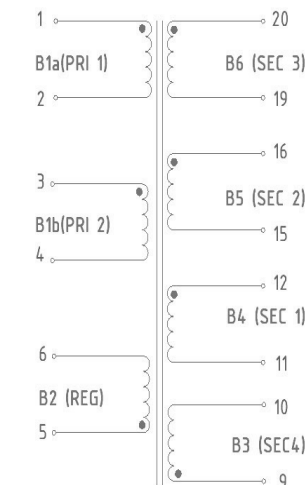
- > Operating temperature -40/+125°C
- > Total losses 510 mW

## 03 SPECIFICATIONS

### DIMENSIONS (mm)



### ELECTRICAL DIAGRAM



### ELECTRICAL SPECIFICATIONS

#### MAG. INDUCTANCE at 25°C

L1,3-2,4 | 17.5  $\mu$ H TYP (19.6  $\mu$ H MAX)

#### LEAKAGE INDUCTANCE

PRI B1(1,3-2,4) | 300 nH MAX

#### DC RESISTANCE at 25°C

B1, Pins (1,3) shorted and (2,4) shorted	33 m $\Omega$ Typ (38 m $\Omega$ Max)
B2, Pins 5 to 6	28 m $\Omega$ Typ (55 m $\Omega$ Max)
B3, Pins 9 to 10	23 m $\Omega$ Typ (27 m $\Omega$ Max)
B4, Pins 11 to 12	31 m $\Omega$ Typ (60 m $\Omega$ Max)
B5, Pins 15 to 16	30 m $\Omega$ Typ (60 m $\Omega$ Max)
B6, Pins 19 to 20	33 m $\Omega$ Typ (62 m $\Omega$ Max)

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

B1(B1a//B1b) : B2 : B3 : B4 : B5 : B6 | 2 : 1 : 1 : 1 : 1 : 1

#### DIELECTRIC STRENGTH

Between B1 and B2	1kV (50/60Hz; 3 mA; 2 sec)
Between B1, B2 and B3, B4, B5, B6	3kV (50/60Hz; 3 mA; 2 sec)
Between B4 and B5	2kV (50/60Hz; 3 mA; 2 sec)
Between B5 and B6	2kV (50/60Hz; 3 mA; 2 sec)
Between B4 and B6	2kV (50/60Hz; 3 mA; 2 sec)
Between B3 and B4, B5, B6	2kV (50/60Hz; 3 mA; 2 sec)
Between all winding(B1->B6) and CORE	1.5KV (50/60Hz; 3 mA; 2 sec)