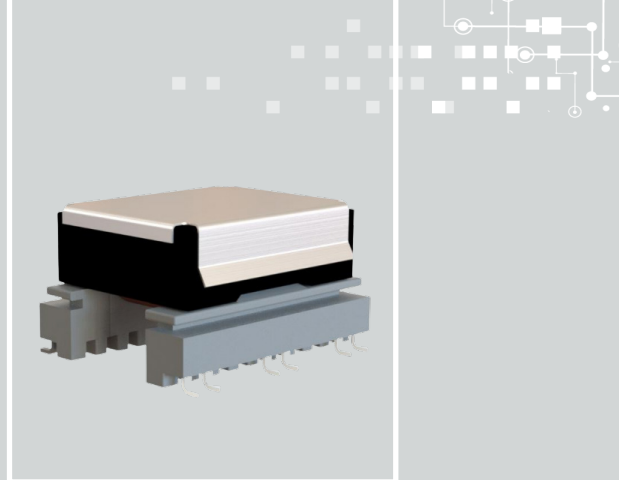


New

# FLYT-005

Flyback Tr. 15uH 2:1:1:0.4:1

INDUCTIVE COMPONENTS / FLYBACK TRANSFORMER



## APPLICATIONS

> Automotive EV/PHV AC/DC onboard battery chargers

## 01 FEATURES

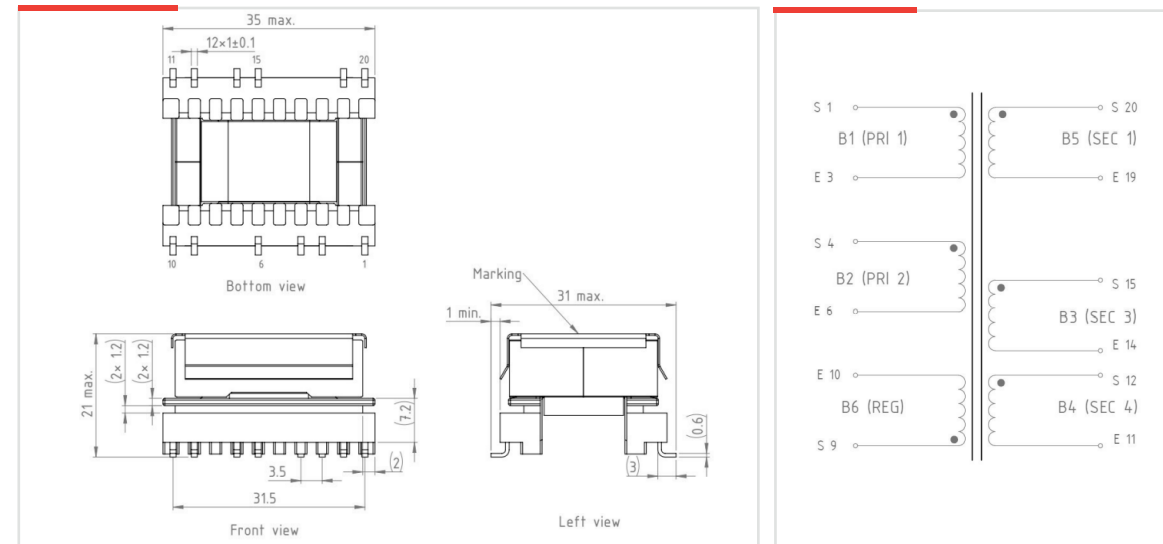
- > Quasi-resonant Mode Fly-back
- > Weight : approx 33g

## 02 OPERATION

- > Operating temperature -40/+125°C
- > ESTIMATED TOTAL LOSSES (@165kHz, Pout=13W, Vin=6V, 105°C):
- > Copper losses (DC) 520 mW
- > Core losses 550 mW
- > Total losses 1.6 W

## 03 SPECIFICATIONS

### ELECTRICAL DIAGRAM



### ELECTRICAL SPECIFICATIONS

MAG. INDUCTANCE at 25°C		DIELECTRIC STRENGTH	
L(1,4 – 3,6)	15 µH TYP (16.8 µH MAX)	Between PRI (B1, B2) and REG (B6)	500V (50/60Hz; 3 mA; 2 sec)
LEAKAGE INDUCTANCE		Between PRI, REG (B1, B2, B6) and SEC3,4 (B3, B4)	4kV (50/60Hz; 3 mA; 2 sec)
PRIMARY (1,4 – 3,6)	360 nH MAX	Between PRI, REG (B1, B2, B6) and SEC1 (B5)	4KV (50/60Hz; 3 mA; 2 sec)
SECONDARY 1: B5	250 nH MAX	Between SEC 3 (B3) and SEC4 (B4)	1kV (50/60Hz; 3 mA; 2 sec)
DC RESISTANCE at 25°C		Between SEC3,4 (B3, B4) and SEC1 (B5)	2.5kV (50/60Hz; 3 mA; 2 sec)
B1//B2, Pins 1,4 to 3,6	50 mΩ TYP (58 mΩ MAX)	Between all winding(B1->B6) and CORE	2kV (50/60Hz; 3 mA; 2 sec)
B3, Pins 14 to 15	45 mΩ TYP (60 mΩ MAX)		
B4, Pins 11 to 12	49 mΩ TYP (66 mΩ MAX)		
B5, Pins 19 to 20	28 mΩ TYP (53 mΩ MAX)		
B6, Pins 9 to 10	52 mΩ TYP (60 mΩ MAX)		
TURN RATIO (10kHz/1Vac)			
(B1//B2) : B3 : B4 : B5 : B6	2 : 1 : 1 : 0.4 : 1		