

### Features

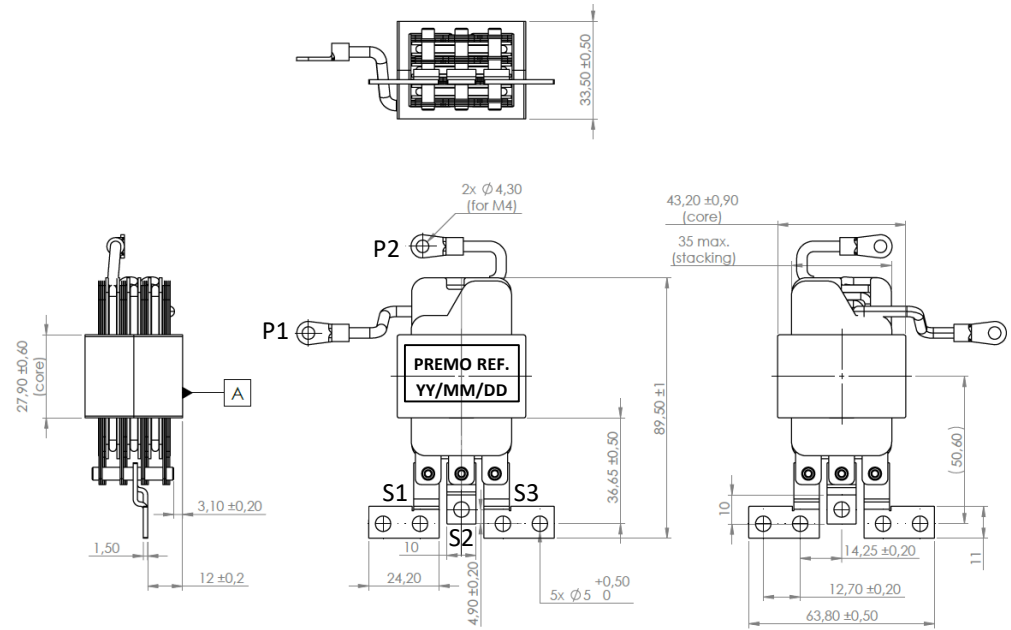
- ZVS DC/DC 3.2kW full-bridge transformer
- Recommended output inductor 2 $\mu$ H / 230Adc
- Switching frequency 100kHz
- Reinforced insulation between prim/sec and with core
- UL94 and RoHS materials (H/180°C)
- Design based on AEC-Q200
- Weight : approx 290grams

### Application

- Automotive HV/LV DCDC onboard converters

### Operation

- $V_{in} = 280-430V_{dc}$  /  $V_{out} = 10-16V_{dc}$
- $I_p = 19Arms$  MAX /  $I_s = 160Arms$  MAX
- Operating temperature  $-40/+150^{\circ}C$  with cooling (cold plate)



#### INDUCTANCE at 25°C

$L1 = L_p$  (100kHz/1Vac) 200 $\mu$ H  $\pm 15\%$

#### DC RESISTANCE at 25°C

R1 13,7m $\Omega$  TYP (16m $\Omega$  MAX)  
R2(S1-S3) 0,18m $\Omega$  TYP (0,21m $\Omega$  MAX)

#### TURN-RATIO

N1:N2 12:1+1

#### LEAKAGE INDUCTANCE

L1lk (100kHz/1Vac, N2 shorted) 2 $\mu$ H MAX

#### DIELECTRIC STRENGTH

{Np}/{Ns+CORE} 4kVAc/50Hz/3mA/1min\*  
{Ns}/{CORE} 500VAc/50Hz/3mA/1min\*

(\* ) 1min in qualification / 2sec in mass production

