

New

## HPC2R0-230

High Power Planar Choke 2 $\mu$ H / 230A<sub>dc</sub>

INDUCTIVE COMPONENTS / HIGH CURRENT DC CHOKE



### APPLICATIONS

- › Automotive HV/LV DCDC onboard converters

### 01 FEATURES

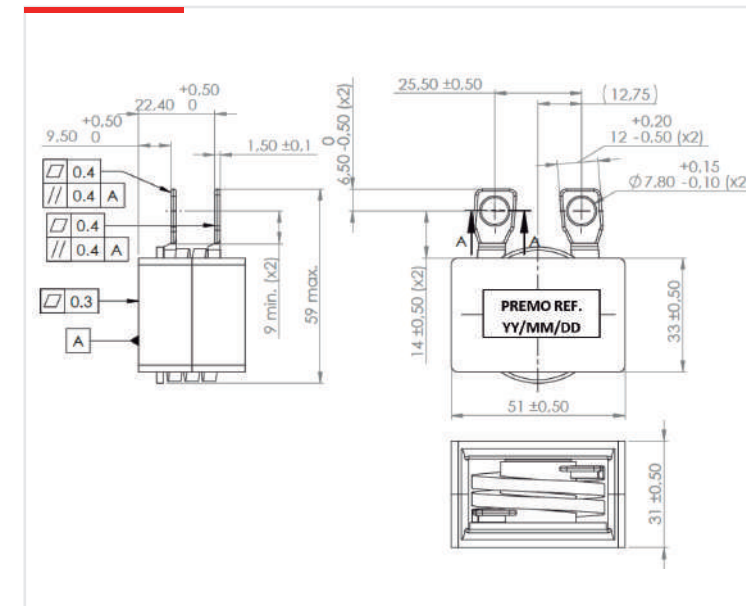
- › High power planar output filtering choke
- › Clearance greater than 2.5mm between outputs / core
- › UL94 and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 280grams

### 02 OPERATION

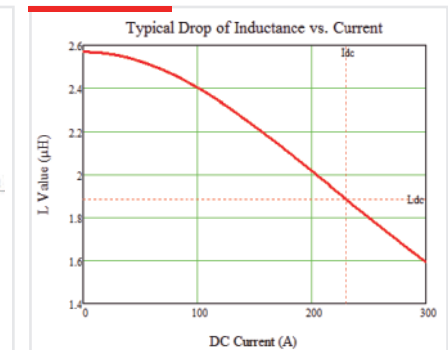
- › Output filtering choke 2 $\mu$ H 230A<sub>dc</sub> 200kHz
- › Inductance value at MAX current : 1.5 $\mu$ H < L<sub>dc</sub> (1.9 $\mu$ H TYP) < 2.9 $\mu$ H
- › Copper losses: 15W @100°C (@230A<sub>dc</sub>)
- › Iron losses : 5W with MAX 14App ripple of current @200kHz
- › Operating temperature -40/+125°C
- › Mounting on cold plate @+75°C MAX

### 03 SPECIFICATIONS

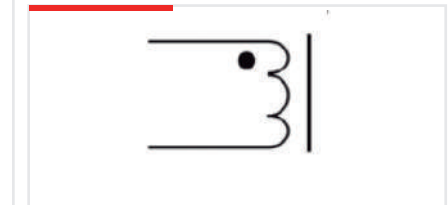
#### DIMENSIONS



#### TYPICAL PERFORMANCES



#### ELECTRICAL DIAGRAM



#### ELECTRICAL SPECIFICATIONS

##### INDUCTANCE at 25°C

L (100kHz/1Vac/0-14A<sub>dc</sub>) 2,6 $\mu$ H  $\pm$ 10%

##### DC RESISTANCE at 25°C

R 0,25 $\Omega$  TYP (0,3m $\Omega$  MAX)

##### DIELECTRIC STRENGTH

{WDG}/{CORE} 500Vac (50Hz/3mA/1min\*)

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