

**INDUCTIVE COMPONENTS / PLC TRANSFORMERS** 





## **APPLICATIONS**

> Automotive EV/PHV AC/DC onboard battery chargers

#### FEATURES 01

- > Signal transformer for HPGP (HomePlug Green PHY™) PLC modems
- > For power line communication devices acc. to IEC 15118 standard
- > For charging systems according to IEC 61851-1
- PTH technology
- > Wide operating temperature range -40 to +125°C
- > UL94 and RoHS materials
- > AEC-Q200 qualified
- > Weight : approx 2grams

#### OPERATION 02

- PLC signal transmission
- > OBC with communication with the charging station

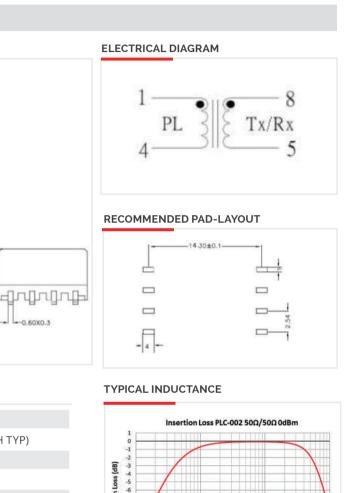
### SPECIFICATIONS 03

# DIMENSIONS



### **ELECTRICAL SPECIFICATIONS**

INDUCTANCE at 25°C		
L <sub>1-4</sub> = L <sub>5-8</sub>	(2MHz/1Vac)	10µH MIN (15µH TY
TURN-RATIO		
N <sub>1-4</sub> :N <sub>8-5</sub>	(10kHz/1Vac)	1:1
DC RESISTANCE at 25°C		
DCR <sub>1-4</sub> = DCR <sub>5-8</sub>		60mΩ MAX (41mΩ <sup>-</sup>
LEAKAGE INDUCTANCE		
L <sub>LK</sub> (100kl	Hz/1Vac)	0.25µH MAX (0.1µ
STRAY CAPACITANCE		
C <sub>PS</sub> (100k	Hz/1Vac)	2pF MAX (0.3pF TYP
DIELECTRIC STRENGTH		
Between Windings		500Vac (50Hz/1mA/









-7

-10

-11 -12 -13 0,1

uH TYP)

′P)

1/1min

Frequency (MHz)

PLC-002