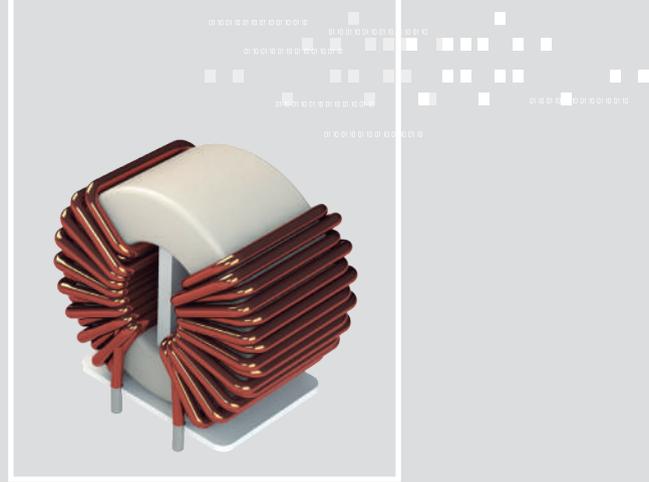


New

# CMCN25R-16V

Common Mode Choke 2x25mH / 16Arms

INDUCTIVE COMPONENTS / COMMON MODE CHOKES



## APPLICATIONS

- › Automotive EV/PHV AC/DC onboard battery chargers
- › Automotive HV/LV DC/DC converters

## 01 FEATURES

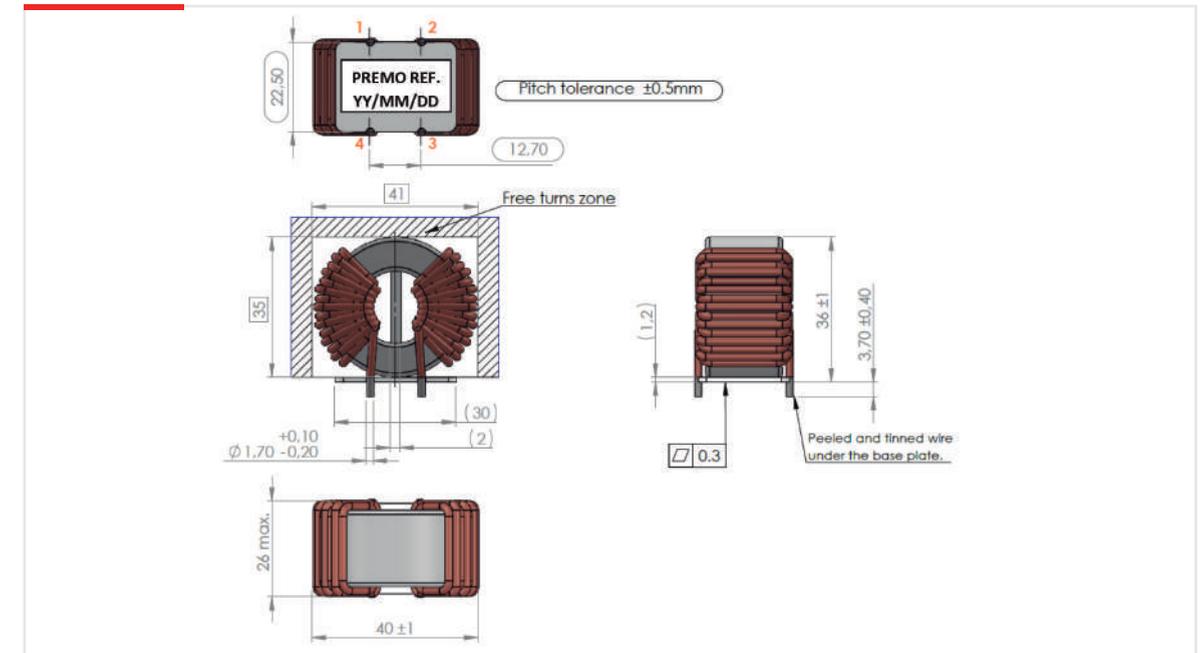
- › High performance CMC using nanocrystalline core
- › High frequency attenuation value in the MHz range
- › Wide operating temperature range -40 to +140°C
- › UL94V and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 90grams

## 02 OPERATION

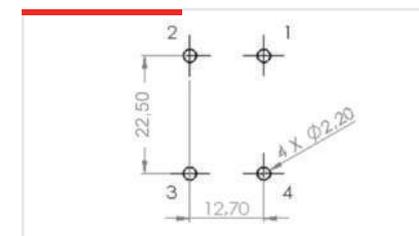
- › Up to 16A (RMS or DC) per winding
- › Total losses < 6W @100°C/2x16Arms
- › Cooling of the windings is required

## 03 SPECIFICATIONS

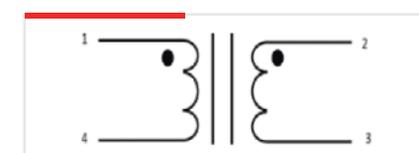
### DIMENSIONS



### RECOMMENDED PAD-LAYOUT



### ELECTRICAL DIAGRAM



### ELECTRICAL SPECIFICATIONS

| INDUCTANCE at 25°C                    |                         |
|---------------------------------------|-------------------------|
| $L_{1-4} = L_{2-3}$ (10kHz/0.3Vac)    | 25mH TYP (19-40mH)      |
| $L_{1-4} = L_{2-3}$ (100kHz/0.3Vac)   | 4.5mH MIN               |
| TURN-RATIO                            |                         |
| $N_{1-4} : N_{2-3}$ (10kHz/1Vac)      | 1:1                     |
| DC RESISTANCE at 25°C                 |                         |
| $DCR_{1-4} = DCR_{2-3}$               | 8.6mΩ TYP (10mΩ MAX)    |
| LEAKAGE INDUCTANCE                    |                         |
| $Llk_{1-4} = Llk_{2-3}$ (100kHz/1Vac) | 18μH TYP (15-21μH)      |
| DIELECTRIC STRENGHT                   |                         |
| Between Windings                      | 1000Vac (50Hz/3mA/1min) |