CMCN4R0-12H
Common Mode Choke 2x4mH / 12Adc

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

01 FEATURES
- High performance CMC using nanocrystalline core
- Optimized size for higher power density
- Wide operating temperature range -40 to +140°C
- UL94V and RoHS materials
- AEC-Q200 qualified
- Weight: approx 35 grams

02 OPERATION
- Up to 12A (RMS or DC) per winding
- Total losses < 2.5W @100°C/2x12 Arms
- Estimated temperature rise on PCB < 30°C

SPECIFICATIONS

Electrical Specifications:
- Inductance at 25°C:
  - $L_{1-4} = L_{2-3} (10kHz/0.3Vac)$: 4.0mH TYP (2.2mH MIN)
  - $L_{1-4} = L_{2-3} (100kHz/0.3Vac)$: 0.5mH MIN
- Turn-Ratio:
  - $N_{1-4}: N_{2-3} (10kHz/1Vac)$: 1:1
- DC Resistance at 25°C:
  - $DCR_{1-4} + DCR_{2-3}$: 4mΩ TYP (6mΩ MAX)
- Dielectric Strength:
  - Between Windings: 2500Vac (50Hz/3mA/1min)