CMCN1R0-36V
Common Mode Choke 2x1mH / 36Adc

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 30 grams

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

OPERATION
- Up to 36A (RMS or DC) per winding
- Total losses < 4W @100°C/2x36Adc
- Estimated temperature rise on PCB < 45°C (cooling needed)

SPECIFICATIONS
- Electromagnetic Compatibility (EMC)
- Common mode inductive components
- New specifications
- Common mode inductive components
- Common mode choke

INDUCTANCE at 25°C
L_{1-4} = L_{2-3} (10kHz/0.3Vac) 1.0mH TYP (0.56-1.5mH)

TURN-RATIO
N_{1-4} : N_{2-3} (10kHz/1Vac) 1:1

DC RESISTANCE at 25°C
DCR_{1-4} = DCR_{2-3} 1.1mΩ TYP (1.4mΩ MAX)

LEAKAGE INDUCTION
L_{lk1-4} = L_{lk2-3} (100kHz/1Vac) 0.7µH TYP (0.4-1µH)

DIELECTRIC STRENGTH
Between Windings: 1500Vac (50Hz/3mA/1min)