**CMCN10R-16V**
Common Mode Choke 2x10mH / 16Arms

**FEATURES**
- High performance CMC using nanocrystalline core
- Optimized size for high power density vs. good attenuation
- Wide operating temperature range -40 to +140°C
- UL94V and RoHS materials
- AEC-Q200 qualified
- Weight: approx 30 grams

**OPERATION**
- Up to 16A (RMS or DC) per winding
- Total losses < 3.5W at 100°C / 2x16Arms
- Cooling of the windings can be required

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

**03 SPECIFICATIONS**

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PREMO REF: YY/MM/10/00</td>
<td></td>
</tr>
<tr>
<td>ELECTRICAL DIAGRAM</td>
<td></td>
</tr>
<tr>
<td>RECOMMENDED PAD-LAYOUT</td>
<td></td>
</tr>
</tbody>
</table>

**ELECTRICAL SPECIFICATIONS**

**INDUCTANCE at 25°C**
- $L_{1-4} = L_{2-3} (10kHz/0.3Vac)$: 10mH TYP (6.2-14.6mH)
- $L_{1-4} = L_{2-3} (100kHz/0.3Vac)$: 1.5mH MIN

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

**DC RESISTANCE at 25°C**
- $\text{DCR}_1-4 = \text{DCR}_2-3$: 5mΩ TYP (6mΩ MAX)

**LEAKAGE INDUCTANCE**
- $L_{lk1} = L_{lk2} (100kHz/1Vac)$: 6µH TYP (4.5-7.5µH)

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