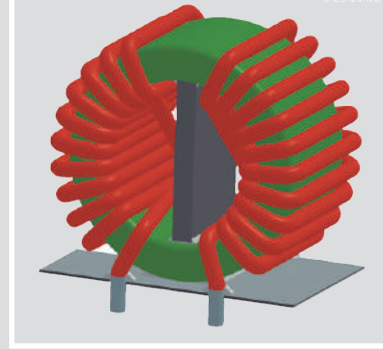


New

CMCF0R9-16V

Common Mode Choke 2x0.9mH / 16A_{dc}

INDUCTIVE COMPONENTS / COMMON MODE CHOKES



APPLICATIONS

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

01 FEATURES

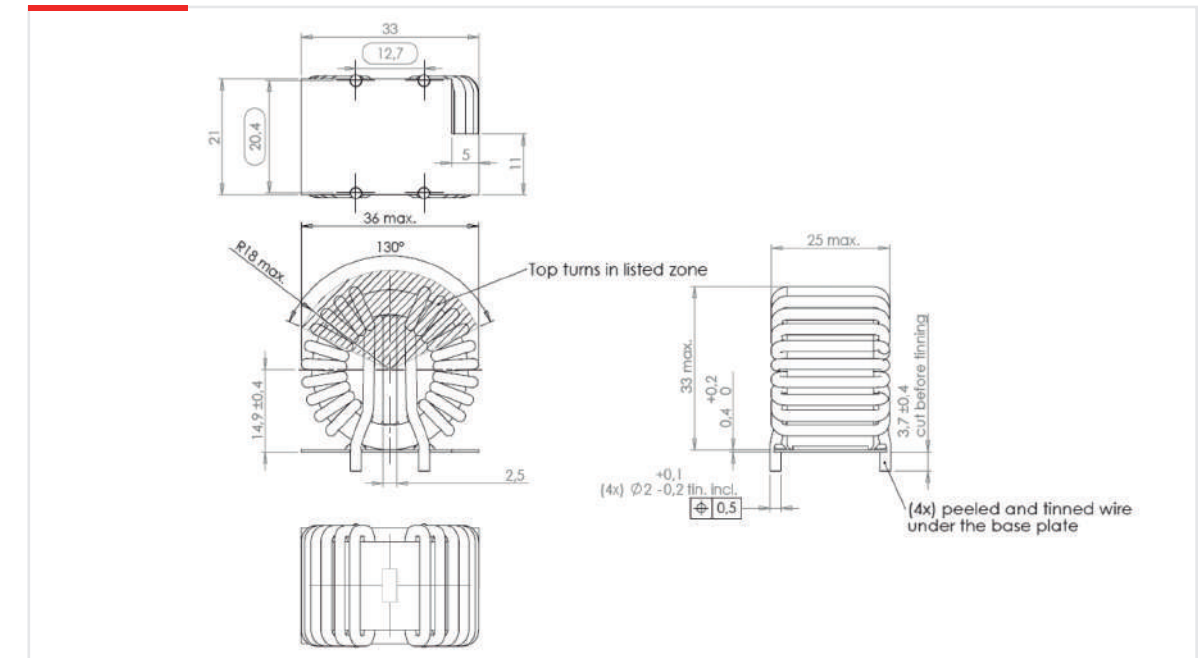
- › Core made of high permeability MnZn ferrite ($T_c > 130^\circ\text{C}$)
- › Optimized size for high power density vs. freq. attenuation
- › Wide operating temperature range -40 to $+125^\circ\text{C}$
- › UL94V and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 55grams

02 OPERATION

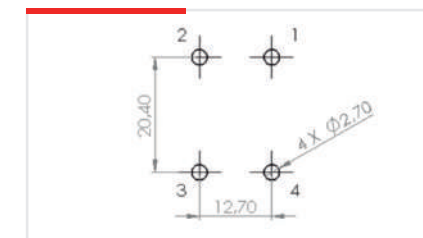
- › Up to 16A (RMS or DC) per winding
- › Total losses $< 2\text{W}$ @ $100^\circ\text{C}/2\times 16\text{A}_{dc}$
- › Estimated temperature rise on PCB $< 30^\circ\text{C}$

03 SPECIFICATIONS

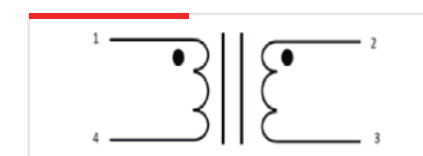
DIMENSIONS



RECOMMENDED PAD-LAYOUT



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C

$$L_{1-4} = L_{2-3} \text{ (10kHz/0.3Vac)} \quad | \quad 0.86\text{mH TYP (0.56-1.16mH)}$$

TURN-RATIO

$$N_{1-4} : N_{2-3} \text{ (10kHz/1Vac)} \quad | \quad 1:1$$

DC RESISTANCE at 25°C

$$\text{DCR}_{1-4} = \text{DCR}_{2-3} \quad | \quad 2.8\text{m}\Omega \text{ TYP (3.5m}\Omega \text{ MAX)}$$

LEAKAGE INDUCTANCE

$$\text{Llk}_{1-4} = \text{Llk}_{2-3} \text{ (100kHz/1Vac)} \quad | \quad 5.5\mu\text{H TYP (4-7}\mu\text{H)}$$

DIELECTRIC STRENGTH

$$\text{Between Windings} \quad | \quad 1000\text{Vac (50Hz/3mA/1min)}$$