New

CMCF2R0-16V

Common Mode Choke 2x2mH / 16Arms

APPLICATIONS

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

01 FEATURES

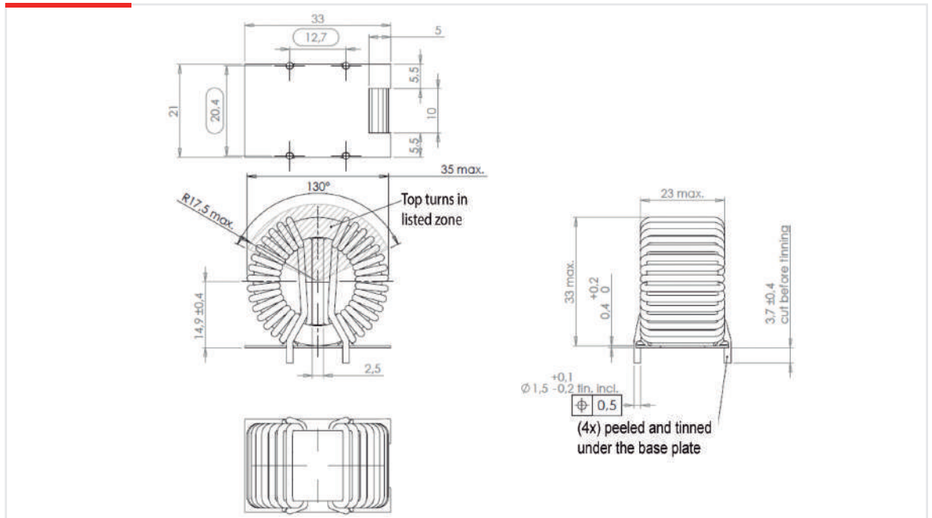
- High permeability MnZn ferrite core (Tc > 130°C)
- Optimized size for high power density vs. freq. attenuation
- Wide operating temperature range -40 to +125°C
- UL94V and RoHS materials
- AEC-Q200 qualified
- Weight : approx 52grams

02 OPERATION

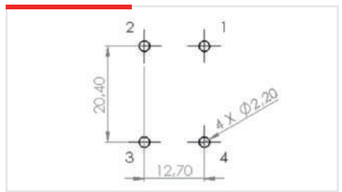
- Up to 16A (RMS or DC) per winding
- Total losses < 5W @100°C/2x16Arms
- Cooling of the windings is needed

03 SPECIFICATIONS

DIMENSIONS



RECOMMENDED PAD-LAYOUT



ELECTRICAL DIAGRAM

ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C	
$L_{1-4} = L_{2-3}$ (10kHz/0.3Vac)	2.1 mH TYP (1.4-2.9mH)
TURN-RATIO	
$N_{1-4} : N_{2-3}$ (10kHz/1Vac)	1:1
DC RESISTANCE at 25°C	
$DCR_{1-4} = DCR_{2-3}$	7mΩ TYP (9.2mΩ MAX)
LEAKAGE INDUCTANCE	
$LIk_{1-4} = LIk_{2-3}$ (100kHz/1Vac)	12µH TYP (9-15µH)
DIELECTRIC STRENGHT	
Between Windings	1000Vac (50Hz/3mA/1min)